



DRAFT

# REMEDIATION INVESTIGATION

## REPORT VOLUME II

HOOKER/RUCO SITE  
HICKSVILLE, NEW YORK



PREPARED BY:

LEGGETTE, BRASHEARS & GRAHAM, INC.

APRIL 1990  
(REVISED AUGUST 1992)

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**APPENDIX 1**

**Detailed Description of Plant Operations**

HKR 001 0295

# Occidental Chemical Corporation

## CERTIFICATION OF ANSWERS TO REQUEST FOR INFORMATION

State of New York

County of Niagara

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document (response to EPA Request for Information) and all documents submitted herewith, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete, and that all documents submitted herewith are complete and authentic unless otherwise indicated. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Thomas L. Jennings

Vice-President  
Corporate Environmental Affairs

Thomas L. Jennings  
SIGNATURE

Sworn to before me this 28th  
day of September, 1988

Sandra A. Pellish  
Notary Public

SANDRA A. PELLISH  
NOTARY PUBLIC, State of New York  
Qualified in Niagara County  
My Commission Expires 8/31/89

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RESPONSE OF OCC TO U.S. EPA  
CERCLA §104 INFORMATION REQUEST  
DATED JULY 11, 1988

BACKGROUND

Over the past few years, a great deal of information has been provided to the New York Department of Environmental Conservation ("NYS DEC"), other state agencies, and the U.S. EPA regarding the operations of the Hicksville Site.

Much of the early interest in the Site was caused by a concern that the Site was a contributor of chlorinated organic chemicals to the area groundwater. This concern was due in part to the reported presence of vinyl chloride in a few water wells near the Site. Since the Company was the only known user of vinyl chloride in the area, the assumption was made that the Company must be the source. It is now known that there can be many sources of vinyl chloride in groundwater.

The reality is as follows. The Hicksville Site is a small site, within and affected by, a large industrial complex. Vinyl chloride has been discovered to be a degradation product of chemicals regionally discarded in large quantities by industrial, commercial and residential users, but discarded by the Company in insignificant quantities. Vinyl chloride becomes a gas at less than 8° F and would not be expected to have reached groundwater in large quantities at the Hicksville Site.

Ubiquitous Regional Use of Solvents

A study performed in Suffolk County traced a plume of vinyl chloride in groundwater to a commercial dry cleaning establishment. The dry cleaner did not use vinyl chloride, but did use perchloroethylene (tetrachloroethylene). This solvent was converted either in the dry cleaning operation, or by biologic action in the septic system and groundwater, into vinyl chloride. The perchloroethylene, a common dry cleaning solvent, was apparently converted into trichloroethylene, then into dichloroethylenes, and finally into vinyl chloride (monochloroethylene). Trichloroethylene was itself a then commonly used metal degreaser and also could degrade to vinyl chloride. The biological degradation of tetrachloroethylene and trichloroethylene to vinyl chloride has been described in "Transformations of tetrachloroethene and trichloroethene in Microcosms and Groundwater," F. Parsons, Paul R. Wood and Jack DeMarco, J. Amer. Water Works Assoc. February, 1984 pp. 56-59. A different degradation pathway occurs when solvents are exposed to hot metal surfaces in the presence of water, such as occurs in metal degreasers. This thermal-hydrolytic

breakdown of solvents to form vinyl chloride was described in "The Chemistry of Synthetic Resin," C. Ellis, Reinhold Publishing, N.Y., 1935, p. 1035.

Further, through studies reported by the Nassau County Department of Health in 1979 and other government agencies, we now know that a significant source of chemicals in the groundwater on Long Island was the individual consumer use of solvents in septic systems. In Nassau County alone, 76,000 gallons of solvents were introduced directly into the groundwater in 1979 in the form of cesspool cleaning and drain opening products. In a May, 1979 survey performed by Nassau County [Attachment 6], the county estimated a yearly sales volume of 76,000 gallons of organic cesspool cleaning and drain opening products. These included 17,400 gallons per year of methylene chloride; 18,600 gallons per year of 1,1,1-trichloroethane and other halogenated compounds. These chemicals were added directly to the groundwater by consumers who poured these solvents into their septic systems. The study was prompted by the discovery of chemicals in wells throughout Long Island. The study lists 11 categories of products and about 230 brands that have the potential to contaminate the groundwater.

The Company did use trichloroethylene, but differently from the typical use of this solvent. The typical use by industrial, commercial (such as automotive garages) and residential users was as a degreaser. After use, the solvent would be discarded. In contrast, the trichloroethylene used by the Company became a component of a product. [Attachment 2 at p. 228, 195] It was not discarded after use and only a trace would appear in any process waste water. Tetrachloroethylene was an integral part of the manufacturing process and it is estimated that less than 40 pounds per year of tetrachloroethylene were discharged to recharge basins [Attachment 2, p. 196]. About 50 pounds per year of vinyl chloride monomer were discharged. Even these estimates are biased on the high side because they are based on the higher production years in the late 1970's. It is unlikely that much of the vinyl chloride reached the groundwater, because it boils at 7.9 degrees Fahrenheit and becomes a gas. No chlorinated solvents other than those already discussed were discharged by the Company. [Attachment 2, p. 194 and Attachment 15]

#### Industrial Neighborhood of Hicksville Site

The Hicksville Site is a 14-acre site in the midst of a thousand acre industrial area. Its largest neighbor occupies or occupied property on three sides of the

Hicksville Site. The Industrial Chemical Survey (NYS DEC 1981) reported that this neighbor had used 1,377,457 pounds of trichloroethylene and 281,288 pounds of tetrachloroethylene annually since 1971. [Attachment 11] Nassau County estimated that the same neighbor used 53 percent of the trichloroethylene used by industry in 1978 in Nassau County. The Company's Ruco Division also used trichloroethylene, but it was incorporated in a product and not discarded. Its use, estimated at 170,000 pounds per year, had ended by mid-1975.

#### Site Investigations

The Company has extensively studied the Hicksville Site. This study, beginning in 1983, involved the installation of 12 monitor wells at six locations on the Site, the collection and analysis of two rounds of groundwater samples from the wells, and collection and analysis of more than 80 samples from an area at and around a 6 foot by 6 foot area where PCBs were apparently spilled. Although some trace contamination of groundwater is detectable on-site, the available data shows that trace contamination may originate to the east on the property of a Site neighbor as well as upgradient to the north from other sources. As noted this neighbor occupies or occupied property on three sides of the Site, and there is reason to believe that groundwater flows from its property, onto the Hooker/Ruco Site, then back onto the neighbor's site. Any groundwater flowing back onto the neighbor's site is presumably captured by its pumpage, and treated in its treatment systems. The maps in Attachments 9 and 10 indicate the widespread historical presence of solvents and vinyl chloride in the areas surrounding the Hicksville Site. They also appear to show a relationship between trichloroethylene and tetrachloroethylene concentrations and vinyl chloride concentrations in groundwater at some distance cross radient from the Hicksville Site.

The only significant contamination remaining on-site is PCB residues on soil in a small section of the Site. We believe adequate data is now available to define this contamination, but we have agreed to undertake more sampling as part of the RI/FS which U.S. EPA has determined must be undertaken. The Company was prepared to remediate this area in cooperation with the NYS DEC, when further action was halted by the removal of the NYS DEC as the lead agency by the U.S. EPA.

### Estimates of Types and Quantities of Waste

A number of attempts have been made to estimate the types and quantities of waste produced by the Company's Hicksville plant. These efforts started in 1978 and attempted to identify the wastes produced based on then current activities and recollections of on-site personnel. Due to the passage of years, very little information is available today. Thus, this response does not attempt to calculate the number of pounds of an individual chemical which may have been disposed as trace components of wastewater discharged to on-site recharge basins decades ago. Any such calculation would be fiction.

We have, instead, attempted to provide a picture of the overall operations at the Site during the period of Company ownership. You have expressed interest in analyses of effluents which were discharged to the recharge basins. Until the mid-1970's, standard analytical procedures for the determination of specific organic compounds such as vinyl chloride and even the common solvents trichloroethylene, tetrachloroethylene and 1,1,1-trichloroethane at trace levels in water were not available. As a result, sampling results that are available are for the most part conventional parameters such as pH, total suspended solids (TSS), and biological oxygen demand (BOD). We did not believe this type of sampling result would be helpful to you and have not included such information in this response.

Also, the concentrations of Ruco chemicals historically reported in process water greatly overstate the concentrations to be found in the sumps because of the large amount of reactor rinse water and non-contact cooling water reaching the sump in addition to process waste water. This is described below in the section entitled "Water Supply". We would estimate that the comparable concentrations in the sumps would be greatly reduced by this dilution.

### Answers to EPA Questions

Numbers and letters in parentheses refer to the questions in your letter. Where sufficient data is not available to respond to your questions, no response is included.

#### Question 1

(1.b.) The Company president is J. R. Hirl, the Chairman of the Board is R. Irani, and the Chief Executive Officer is R. Irani. Their address is Occidental Chemical

Corporation, Occidental Tower, P.O. Box 809050, Dallas, Texas 75380. (1.c.) The Company is incorporated in New York. (1.d.) The Company has subsidiaries; however none is a significant operating company in this country and none had any relationship to the Hicksville Site. (1.d.) The Company's ultimate parent is Occidental Petroleum Corporation ("OPC"). The President is R. Irani and the Chairman and Chief Executive Officer is Dr. Armand Hammer. Their address is 10889 Wilshire Boulevard, Los Angeles, CA 90024. OPC is incorporated in Delaware. (1.e.) Both the Company and OPC accept service of process through CT Corporation.

### Question 2

The Hicksville Plant Site was developed by (2.f.) Rubber Corporation of America, a small privately-held company. (2.b. and 2.c.) Operations at the Site began in 1945 and included natural rubber latex storage, concentrating and compounding. Five years later, the plant began producing small volumes of plasticizers. These activities were expanded and modified through the years. (2.d.) In 1965, a polyvinyl chloride plant was built, and was initially operated under the name Insular Chemical Corporation. This plant continued in operation until 1975. (2.a.) Hooker Chemical Company purchased Rubber Corporation of America in 1965, and operated the facility as the Ruco Division. (2.d.) Hooker has undergone several name changes, with the current name being Occidental Chemical Company. (2.b. and 2.c.) The Site was sold to employees in February 1982. Thus Occidental Chemical Company or the Rubber Corporation of America owned and operated the Site between 1945 and 1982. The Site is now operated by a privately held corporation under the name (2.f.) Ruco Chemical Corporation which is not affiliated with the Company. (2.e.) Although the Company did not lease any portion of the Site to third parties, the office building for the plant was a leased building north of the Site.

PVC (polyvinyl chloride) was a key material in the products made at the Site. Prior to 1955 this material was purchased from outside sources. In 1956, a partnership was formed with Ross & Roberts of Stratford, Connecticut to construct and operate a PVC production facility at the Hicksville Site. This joint venture was known as Insular Chemical Corporation. Insular was later dissolved when Rubber Corporation of America purchased its partner's share. Today, no distinction is made between the property which was under the control of Insular and the property which was

owned by Rubber Corporation of America. The Site encompasses all of this property.

Through the years in which the Company operated the Site, various processes were employed including the manufacture of polyesters, polyurethanes, and specialty plasticizers for the vinyl industry. As mentioned above, during the period 1956 to 1975, polyvinyl chloride was produced at the Site. Other products included vinyl film and sheeting, solution polyurethanes and polyurethane latexes, dry blends and pelletized plastic compounds. A pilot plant produced polyester, plasticizer and polyurethane products, and the laboratory was utilized for organic chemical synthesis and technical service. [Abramowitz Testimony - Attachment 2]

### Question 3. Processes

In the following discussion, each of the production processes is discussed separately.

(3.c) To provide an insight into the wide variety of raw materials which were used in the Hicksville processes, we have included a copy of a letter to the Nassau County Department of Health dated January 5, 1977 which includes lists of raw materials used at the Site from 1970 to 1976. [Attachment 7 - Raw Material Lists.]

(3.f) Process flow sheets are attached [Attachment 8] for monoester, polyester, polyurethane, and latex production. A similar flow sheet was not available for PVC.

Where responses are incomplete, the lack of information is primarily due to the detail requested. Due to the passage of years, little information remains on the details of production.

#### 3.a. Latex and Latex Compounding

This process operated from 1945 to 1971. (3.c.) The process involved the co-polymerization of styrene and butadiene under pressure, in the presence of water, in a reactor with the aid of catalysts, additives, heat and agitation. The resultant product was a milky liquid, known as a latex. This latex product was sold as-is to other manufacturers for final use, or was further concentrated and modified by the Company. In the concentration process, the latex was circulated under heat and vacuum to gently remove water. Latex compounds were made by dispersing additives such as pigments and fillers into the raw latex to provide

special characteristics desired by the customer. Latex is considered non-hazardous, and is used in the manufacture of surgical gloves and other rubber goods. It is also the base for the manufacture of chewing gum and is used in the manufacture of adhesives. (3.b.) Production of latex is estimated to have been about 40,000 pounds per week.

There were only two wastes from the process, one a solid and the other aqueous. The solid waste was dried latex rubber which was generated by the drying of spilled latex or by the peeling of dried latex rubber from equipment during cleaning operations. About 300 pounds per week of this waste were produced. This waste is non-hazardous and was added to the plant trash for off-site sanitary disposal. (3.j.) The liquid waste was generated from a vacuum stripping operation and from periodic flushing of equipment. The water from the vacuum stripping contained small quantities of styrene and butadiene. This water was routed to outdoor recharge basins, along with the reactor flushings. These latex wastes are regarded as harmless.

Periodically, the recharge basin bottom was scraped, and these scrapings, containing a mixture of soil and coagulated rubber, were sent off-site for landfilling. When the latex operations were closed in 1971, the recharge basin was drained.

In 1970 a 10,000 gallon outdoor storage tank of styrene (nearly full) polymerized to a solid mass. After the reaction cooled, the tank was completely solidified with polystyrene, the plastic used to make clear plastic drinking cups and the material used in making foamed plastic coffee cups. This tank was sent off-site for disposal.

### 3.a. Esterification

In 1950, the Company began making small quantities of monoesters (plasticizers). Polyesters were added as a product line in 1959. These were manufactured in jacketed reactors equipped with agitation and condensers. (3.c.) These esters were made by reacting organic acids, such as adipic acid with alcohols or glycols, such as octyl alcohol or ethylene glycol with the help of heat and a catalyst. Water was a by-product which was removed to allow the reaction to proceed to completion. In some products, perchloroethylene was added as an inert carrier for this water of esterification. This water was removed by vacuum distillation. The perchloroethylene and water carried over some of the reactants, such as the alcohols or glycols. In the case of plasticizer production, an excess of alcohol was

used to facilitate water removal from the product. This recovered material was saved for recycling to the following batch. Over the years, trimellitate plasticizers, maleate esters, fumarate esters, and more recently, polyesters were made. Caprylates and pelargonates were also made.

Wastes from the process included both solids and liquids. Decolorizing carbon was added during plasticizer manufacturing to reduce color formation. This carbon was removed from the product by filtration through a filter press. The filter cake removed from the press was sent off-site for disposal. (3.j.) Liquid wastes, including water with dissolved organic acids, alcohols and glycols were originally sent to an outside recharge basin. From 1975 on, these wastes were incinerated on-site under permit from New York State. (3.b. and 3.d.) In 1978, at a production rate of 26 million pounds per year, the plant was incinerating about 4,000 gallons per day of waste water (around 12 million pounds per year.) This is the highest production rate experienced in any previous year. This wastewater stream contained one to ten percent of mixed glycols and alcohols. The wastewater stream also contained perchloroethylene (with an estimated discharge of about 40 pounds annually), at times methanol, and also organic acids such as adipic, trimellitic, phthalic, and isophthalic. Some of these materials have other very common uses, such as adipic acid which is an FDA approved food acidulant, and ethylene glycol which is used in anti-freeze. Non-aqueous wastes were sent off-site for disposal, either by landfilling or incineration.

(3.b.) the Company's ester production increased from small initial quantities of perhaps one million pounds in 1950 to about 26 million pounds in 1978.

### 3.a. Vinyl Film & Sheeting

(3.c.) In this process, PVC resin was blended with plasticizers, pigments, stabilizers and other additives prior to hot mixing and feeding to a calender. A calender is a series of large, heated metal rolls between which the molten plastic mass is fed through increasingly smaller clearances, until a film or sheet of the desired thickness is formed. The hot sheet is finally peeled from the last roll and passed over a series of cooling rolls before reaching a wind-up station. The only wastes generated in this process were scraps of plastic and floor-sweepings. These harmless plastic pieces were added to the plant trash for off-site disposal. There were no liquid wastes from this process. (3.a.) The calendering operation at the Site



started in 1952 and ceased operation in 1969. (3.b.) Annual production was about 7 million pounds per year.

### 3.a. PVC Resins

The Company manufactured PVC resins by a well known suspension process of polymerization. (3.c.) The primary raw material for this process was vinyl chloride monomer, a material which is a gas at atmospheric temperatures and pressures. Under pressure, or refrigeration below 79 degrees Fahrenheit, the monomer becomes a liquid. The monomer was received in rail cars, and was fed into jacketed reactors under pressure, along with water, suspending agents (soaps), buffers, and catalyst. In the agitated reactors, under pressure, and somewhat elevated temperature, the vinyl chloride was converted to polyvinyl chloride resin in a slurry with water. Whereas the monomer is a gas under atmospheric conditions, the polymer is a solid white powder. Although the process initially requires heat to start the reaction, as the reaction proceeds, cooling is required to control the temperature. This cooling was provided by circulating non-contact water through the reactor jacket. The reaction was usually allowed to proceed to 90 to 95 percent of completion, after which the unreacted monomer was stripped from the batch in a separate stripping vessel, condensed and recovered for recycling. The stripped resin slurry was then centrifuged to remove most of the water, and was finally sent through a rotary dryer to remove the remaining moisture. (3.c.) Some products required the addition of vinyl acetate to the reactor to produce a copolymer of vinyl chloride and vinyl acetate. The basic process was similar, but vinyl acetate was added to the reaction mixture, and the catalyst and additives were adjusted.

(3.a. and 3.b) Starting in 1956, the facility operated at an average rate of 9 million pounds of product per year. The process was shut down in 1975.

Wastes from this process consisted mainly of aqueous effluent from the centrifuge and rinse water from the reactors. (3.j.) These wastes were discharged to outdoor recharge basins. (3.e.) Each year, about two million gallons of process wastewater were discharged to the recharge basins. Leaving the process, the wastewater stream probably contained 600 to 1,200 parts per million of dissolved organics. Included in the dissolved organics were trace levels of unreacted monomer. A former plant employee estimated that the total level of monomer in the wastewater was about two to three parts per million. [Attachment 1,

Abramowitz letter, June 5, 1979.] Since the individual formulations varied, so did the ratio of components in the wastewater. A breakdown of contaminants based on a typical copolymer formulation may be two to three parts per million vinyl chloride, 100 to 175 parts per million gelatin, 100 to 175 parts per million methocel (a soluble form of cellulose), 50 to 100 parts per million barium-cadmium stabilizer, a trace of trichloroethylene and lauric acid, about 100 parts per million of sodium acetate/bicarbonate, and 250 to 650 parts per million of vinyl acetate. The barium and cadmium soaps were in use only for a short period of the plant operation. Only during this period would traces of these materials have been present in the wastewater. The 2 to 3 parts per million VCM is the equivalent of about 50 pounds per year. (2 million gallons x 8.33 pounds per gallon x 3 parts per million = 49.98 pounds.)

An important point is that, in addition to the 2 million gallons of process water, an equal quantity of relatively clean reactor rinse water was discharged. Also, non-contact cooling water was used. Thus, the actual concentration of materials reaching the groundwater would be much less than the above estimates for process water.

In addition to the dissolved organics the wastewater contained very finely divided particles of PVC which were too small to be captured by the centrifuge. In the recharge basins, the PVC settled out, and most of the vinyl chloride evaporated into the atmosphere due to its high volatility. About once per year, the recharge basin bottoms were scraped, and these scrapings, primarily containing PVC resins, were removed for off-site landfill disposal. The PVC operation ceased in 1975.

### 3.a. Polyurethanes

These products were manufactured either in 55-gallon drums or in temperature controlled reactors. (3.a.) Small scale production began in 1962. (3.c.) Raw materials were normally polyesters, a di-isocyanate, glycol-type chain extenders, and a catalyst. Solvents, such as toluene and dimethyl formamide (DMF), were added to keep the final product in a fluid condition. Temperature control was essential for product quality and uniformity, and the process took place under constant agitation. The final product was a high molecular weight polyurethane resin in solvent solution. (3.e.) Water was not used in this process other than as non-contact steam or cooling water.

Two types of liquid wastes were produced in the process. Non-halogenated solvents, such as toluene, were used periodically to flush the reactors to provide clean reactors for product changes. These flushings were sent off-site for incineration. The second type of waste was off-specification product. If the product could not meet specifications, it was sent off-site for landfill disposal.

### 3.a. Vinyl Compounds

Two basic types of vinyl compounds were manufactured by the Company at the Hicksville Site, dry blends and pellets. (3.c.) In either case, about 90 percent of the formulation was PVC resin, with the remainder being such additives as pigments, lubricants, heat stabilizers and impact modifiers. (3.a.) The compounding operations started in 1958. The dry blends were made by placing this mixture in a high speed blender, and mixing vigorously for a few minutes. The friction of the mixing caused a heat build-up, so the mixture would then be quickly discharged to a cooler to prevent decomposition. This product was then suitable for some uses, such as the manufacture of vinyl phonograph records. Other uses required the formation of pellets, so the dry blend was fed through an extruder, which melted the material, and forced it through a die with a rotating knife at its face to produce a pelletized product. This type of product was used for the manufacture of clear plastic bottles and blister packaging. (3.e.) Water was not used in this process.

Waste from the compounding process was mostly paper sacks in which the raw material arrived, and some floor sweepings. In the early days of plant operation, the paper bags were bundled and sent off-site along with the floor sweepings for municipal landfilling. Later, the bags were compacted and sent to a secure landfill, along with the floor sweepings. There were no liquid wastes from this process.

### Question 3.g, 3.i, 3.j

It is our belief that the wastewater disposed of on-site in the recharge basins was not and is not hazardous due to either the innocuous nature of the components or the low concentration of those materials which today may be considered hazardous. Of those chemicals now listed as hazardous substances pursuant to CERCLA §101(14), only the following would have been found in the Company's waste at various times and not necessarily above reportable quantities: adipic acid, barium, cadmium, methanol,

methylethylketone, phthalate esters, phthalic anhydride, polychlorobiphenyls (PCBs), styrene (but not polystyrene), tetrachloroethylene, toluene, trichloroethylene, urethane (but not polyurethane), vinyl acetate monomer (but not polyvinyl acetate), vinyl chloride monomer (but not polyvinyl chloride).

We have not included information relating to off-site disposal as the thrust of your inquiry is related to the RI/FS at the Hicksville Site which is being conducted by the Company pursuant to a Consent Order with U.S. EPA.

Reference should also be made to responses above in Question 3.

#### Question 4. On-site Waste Storage/Disposal

Latex solidified in three storage tanks and these tanks could no longer be used. In 1974 these tanks were removed from Plant 1 and were buried at the Site between the parking lot and the railroad right-of-way. These tanks were filled with sand and covered. The latex is not considered hazardous.

In the latex operation, latex was moved by trailer from Plant 2 to Plant 1 where it was concentrated. In time, the trailer would become encrusted internally with solid latex rubber, and the tank trailer would be discarded. In approximately 1962 a trailer was buried on the property between the Plant 2 solvent tank farm and the PVC catalyst cold room. Plant personnel believe that a second trailer was shipped off-site for disposal.

Reference should also be made to the answer to Question 6.

#### Question 5. Spills and Releases from Processes

In 1978 the plant was using 33,000 pounds of Speedi-Dri to soak-up and clean-up chemical spills (plasticizer, 2 - ethylhexanol and other alcohols, polyester, polyurethane, urethane latex and oil spills). Plant personnel estimated that about one-half part of organic was absorbed in each part of Speedi-Dri, thus the amount of spilled material was about 16,000 pounds per year.

Occasionally, ester plant wastes overflowed their concrete sumps (which fed the incinerator) and entered the now inactive Plant 1 Ester Plant Recharge Basin.

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For some time, the Pilot Plant hot oil system used oil containing PCBs. Periodically, the system had upsets in which oil erupted through a relief pipe, ran down the outside of the building, and soaked into the ground. This ground area was believed at the time to be about six feet square. The system was converted to non-PCB oils, and the contaminated area was paved over. This area has been studied since 1983 to define the extent of the PCB contamination. The most recent samples were taken on February 18 through March 18, 1988. The area of contamination is largely defined at this time. The most recent sampling and analysis report was presented to the U.S. EPA on June 23, 1988.

#### Question 6. Other Spills and Releases

The Company has had occasional spills of raw materials during transfer operations. These spills have been cleaned up, and the clean-up materials have been sent off-site for landfill disposal. One such spill in 1982 was 300 to 500 gallons of isodecyl alcohol which was spilled when a temporary transfer line broke. The spilled material was soaked up with Speedi-Dri and visibly contaminated dirt was removed. Spills such as this were reported to Nassau County as well as the NYS DEC.

Over the period that the ester plant was operating, the bulk truck loading and unloading operations resulted in minor dripping and minor leakage of plasticizer, alcohols, and latex in the ester tank farm area. There were also occasional tank overflows. The area used for the loading/unloading was neither paved nor diked. As a result, the spills could soak into the ground, and under storm conditions, the spills could be washed to the back recharge basin.

Similarly, the area to the west rear of Plant 1 where plasticizer trucks were loaded would have received minor drippings and spillage. This area was not paved, and during storm conditions would have been a source of plasticizer to the back recharge basins.

For a period of time, several hundred drums of wastes were stored on-site in areas both north and south of Plant 2. These were stored until arrangements were made for appropriate off-site disposal. The drums contained such waste as 2-ethyl hexanol, other alcohols, perchloroethylene, solution urethane, solvents such as dimethyl formamide, toluene, methyl ethyl ketone, isopropyl alcohol, waste plasticizer, waste polyester, and filter cakes. Due the

long storage time, some of the drums rusted through, allowing the contents to be released to the ground. The drums were removed and sent for disposal off-site. Soil contamination remaining may have resulted in stormwater contamination. This stormwater would discharge to the Pilot Plant Recharge Basin.

Question 7. Pilot Plant & Laboratory Processes

The laboratory was used for a wide variety of process research and quality control functions associated with the plant operations. Wastes and effluents from the laboratory were minimal.

Laboratory and pilot plant synthesis processes and the chemicals they employed were essentially small scale versions of the plant manufacturing operations. There was a pilot scale hot oil system in the Pilot Plant. Periodically this system had upsets in which PCBs were released. This is discussed in the answer to Question 5.

Question 8. Storage Tank Leak Tests

On review of our files, we could find no information regarding tank leak tests. A listing of all storage tanks, capacities, materials stored in each tank, and how they are handled was submitted to the Nassau County Department of Health as part of the Site Spill Control Plan. [Attachment 3-Letter: P.B. DeVries to Nassau County Department of Health, April 29, 1981.]

Question 9. Lagoons/Septic Tanks

Although no septic tanks are in use at the Site today, at the time of Company ownership, there were five septic tanks in use. These septic tanks were used only for sanitary wastes. They were permitted to discharge a total of 4,000 gallons per day to the groundwater. [Attachment 4 - 1981 Underground Injection Control Questionnaire.] There were and are no lagoons on the Site. References should be made to Question 13 relating to recharge basins.

Question 10. Water Supply

Originally, the Company water supply was primarily from on-site wells. These wells have now been shut down, and water is supplied from City mains. Company pumpage during the period January 1960 to January 1969 (a period for which records were available) averaged about 95,000 gallons per day. In 1958, these wells were permitted to pump 600,000

gallons per day, with a maximum of 120 million gallons in one year. In 1960, the pumpage was about 330,000 gallons per day. As the wells were taken out of service, this dwindled to about 35,000 gallons per day in 1968. One by one, the wells were shut down because of clogging from a build-up of naturally occurring iron bacteria. These wells were N5368 installed in May, 1955; and well N3450 installed in March of 1950, rebuilt in October, 1955 and shut down in July, 1960; and N5390 installed in October 1955 and shut down in June 1965. Occasional well use continued until October 1970, however. [Logs of these wells are included as Attachment 5.]

#### Question 11. Plan of Site

The U.S. EPA and their contractor, EBASCO, have been provided with drawings of the Site.

#### Question 12. Production and Monitoring Wells

The original water supply for the Site was primarily from on-site wells. These wells were N5368 installed in May, 1955; and well N3450 installed in March, 1950 and rebuilt in October 1955; and N5390, installed in October 1955. [Logs of these wells are included as Attachment 5.] Company pumpage during the period January 1960 to January 1969 (a period for which records were available) averaged about 95,000 gallons per day. In a 1964 form submitted to the Nassau County Department of Health, the pumpage was estimated to be from 68,400 to 102,600 gallons per day [Attachment 14]. In 1958 these wells were permitted to withdraw 600,000 gallons per day. These wells were in operation at various rates of withdrawal from 1950 to 1970. After this time they were shut down because of clogging from a build-up of naturally occurring iron bacteria.

Twelve monitoring wells were installed in two well clusters at six locations on the Site in 1983. Well logs and construction details have been provided to the U.S. EPA. The first set of groundwater samples were obtained from January 30 to February 7, 1984. A second set of groundwater samples were obtained during the period from May 6 to May 10, 1985. The results of this sampling and analysis were reported in a February 1986 report entitled "Report of Groundwater & Soils Investigation at The Former Ruco Division Plant Site, Hicksville, New York. This report has been given to the U.S. EPA.

Question 13. Recharge Basins

During the early days of plant operations, recharge basins were used for the treatment/disposal of all plant effluents, including PVC production effluents, effluents from the latex operation, and effluents from ester manufacturing. These discharges took place under New York SPDES Permit. The latex operation ceased in 1971, at which time its basin was drained and cleaned out. The on-site incinerator for ester wastes came online in early 1975, eliminating the discharge of ester wastewater to the ground. Following the PVC process shutdown in 1975, the recharge basins received only stormwater. Each of these is described further below.

You have expressed interest in analyses of effluents which were discharged to the recharge basins. Until the mid 1970s, standard analytical procedures for the determination of specific organic compounds such as vinyl chloride and even the common solvents trichloroethylene, tetrachloroethylene (perchloroethylene) and 1,1,1-trichloroethane were not available. As a result, sampling results that are available are for the most part conventional parameters such as pH, total suspended solids (TSS), and biological oxygen demand (BOD). We did not believe this type of sampling result would be helpful to you, and have not included such information in this response.

PVC, Vinyl Chloride/Vinyl Acetate Copolymer, and Latex Recharge Basins - Plant 2:

In 1956, the Company went on-stream with a PVC resin facility making both PVC (polyvinyl chloride) and vinyl chloride/vinyl acetate copolymer. Production rate of this suspension plant was about 10 million pounds per year. Approximately two million gallons of process wastewater were discharged annually to the Plant 2 Recharge Basins. This wastewater contained about 0.1 percent PVC resin solids (too fine to be collected by the process centrifuge), and contained 600 to 1,200 parts per million dissolved organics. Included in the dissolved organics were trace levels of unreacted monomer. A former plant employee estimates that the total level of monomer in the wastewater was about two to three parts per million. [Attachment 1] This is the equivalent of about 50 pounds of vinyl chloride per year. Since the individual formulations varied, so did the ratio of components in the wastewater. A breakdown of contaminants based on a typical copolymer formulation may be two to three parts per million vinyl chloride, 100 to 175



parts per million gelatin, 100 to 175 parts per million barium-cadmium stabilizer, a trace of trichloroethylene and lauric acid, about 100 parts per million of sodium acetate/bicarbonate, and 250 to 650 parts per million of vinyl acetate. The barium and cadmium soaps were in use only for a short period of the plant operation. Only during this period, would traces of these materials have been present in the wastewater. After approximately five production batches, the reactors needed to be entered and manually cleaned due to the build-up of product on the walls. Before and after this cleaning the reactors were rinsed. The amount of this rinse water was about 2 million gallons per year and would dilute the concentrations described above upon entering the recharge basins. This water was sent to the Plant 2 recharge basins.

In addition, recharge basins for Plant 2 received wastewater from a vacuum stripping operation used in latex processing between 1956 and 1975. The wastewater probably contained some styrene and lesser amounts of butadiene. Also, rosin acid soaps may have entered the recharge basins during plant upsets.

#### Ester Plant Recharge Basin - Plant 1:

From 1951 to 1974, process waste from ester production was fed to the Ester Plant Recharge Basin. The ester production gradually increased from five million pounds per year in 1951 to 26 million pounds per year in 1978. In 1978, about 4,000 gallons per day of wastewater were being produced (about 12 million pounds per year). Based on an approximate two percent organic content, the plant in 1978 was disposing of about 250,000 pounds per year of organic waste, which formerly entered the recharge basin. Since 1975, these wastes have been incinerated in an on-site incinerator, and the recharge basin was taken out of service. The basin continued to receive discharges to the floor drains in the Pilot Plant, however. The discharges to the floor drains were apparently stopped late in 1976.

The wastewater that at one time entered the basin contained one to ten percent mixed glycols and alcohols. It also contained organic acids such as adipic, trimellitic, phthalic, and isophthalic. The waste stream also contained small amounts of perchloroethylene and, at times, methanol.

Cooling Tower/Boiler Blowdown and Other - Recharged Water:

The plant discharged substantial quantities of water other than process water. In 1978, about 10,800 gallons per day (3,600,000 gallons per year) of cooling tower and boiler blowdown were discharged to the Pilot Plant Recharge Basin. The design flow of these non-contact discharge was listed as 25,000 gallons per day in the May 8, 1975 SPDES application. [Attachment 12] In a July 29, 1977 Nassau County Department of Health Memorandum the cooling tower and boiler blowdown are listed as 10,000 gallons per day each. [Attachment 13] These blowdowns contained low levels of approved boiler and cooling tower treatment chemicals. Before the installation of the cooling tower, much more water was used. As noted previously, the plant was permitted to pump 600,000 gallons per day in 1958, and actual pumpage in 1960 was about 330,000 gallons per day. Most of this water was non-contact cooling water discharged to the recharge basins.

During the period 1956 to 1975, City water was demineralized for use in the Plant 2 PVC and latex processes. Regeneration acids and caustic were discharged to the basin behind Plant 2.

#### Question 14. Recharge Basin Cleanout

The above discussed recharge basins required periodic cleanout. The materials cleaned from the basins were sent to off-site landfills for disposal. The Plant 2 and Plant 1 basins were cleaned approximately once per year. This material consisted primarily of sand and gravel with resin.

#### Question 15. Non-insurance Indemnification

There is no non-insurance indemnification.

#### Question 16. Insurance Indemnification

Occidental has maintained a series of liability insurance programs over the years which would be responsive to its liability at the Hicksville Site, if any. Each such successive insurance programs involved a number of primary and excess coverage layers. The extent of such coverage's responsibility for environmental liabilities, including at Hicksville, is in litigation (Occidental Chemical Corporation, et.al v. Hartford Accident and Indemnity Company, et. al, N.Y. Sup. Ct., Erie Co.) Index No. 41009-80).

**hooker RUco** DIVISION

DEX (Phone: 202-828-1200)

P. O. BOX 456, RIVER ROAD, BURLINGTON, NEW JERSEY 08016, PHONE (609) 499-2300

June 5, 1979

Wald, Markrader & Ross  
1320 19th St.,  
N.W.  
Washington, D.C. 20036

Attn: Keith Watson, Esq.

Dear Keith,

We agreed to estimate, for the Sub-Committee, the components in the PVC waste water totaling 600-1200 ppm, as mentioned on p. 11 of the J.B. Harrison document dated 8-18-78. Our best breakdown based on a typical copolymer formulation is as follows:

	<u>PPM</u>
vinyl chloride	2-3
gelatin	100-175
methocel	100-175
barium-cadmium stabilizer	50-100
trichloroethylene	trace
lauric acid	trace
sodium acetate/bicarbonate	100
vinyl acetate	250-650
approx. total range	600-1200

Yours truly,  
HOOKER CHEMICAL COMPANY

Raymond J. Abramowitz  
Technical Director

RJA:bb

cc: J. B. Harrison  
M. Whitehead,  
J. Ruffing

HKR 001 0315

DE-----

JUN 8 1979

Wm...

# Hooker RUCO DIVISION

NEW SOUTH ROAD, HICKSVILLE, NEW YORK 11802  
PHONE (516) 931-8100 TWX 510 221-1871

April 29, 1981  
**Engr** 3928

Nassau County Department of health  
240 Old Country Road  
Mineola, New York 11501

Attention: Mr. L. Sama, Public Health Engineer  
Bureau of Land Resources Management

Dear Larry:

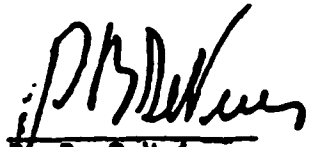
Attached is a listing of all storage tanks, capacities, materials stored in each tank, and how they are handled. We have included a site map indicating locations of all tanks.

Tanks at location B nos. 14, 15, 16, 17A, 17B, 17C, 18A, 18B, 18C, 19A, 19B, 20A, 20B, 21, 22, tanks 1, 2, and 3 at location F and the separator and receiver at location K are below ground. A total of 14. Seventy-two (72) tanks are above ground.

The information submitted is part of our Spill Control Plan.

PBV/es  
enc.

cc: J. B. Harrison  
H. Dubec

  
E. B. DeVries  
Site Engineering Manager

HKR 001 0316

# 1. PRESENT FACILITIES & OPERATIONS

## A. MATERIALS COVERED

1. Listed below are the materials covered by this plan:

<u>MATERIAL</u>	<u>STORAGE VOLUME</u>
Ethylene Glycol/Propylene Glycol Mixture (EPG)	5,000 gal.
1,4-Butanediol	5,000 gal.
Diethyl Adipate (DOA)	20,000 gal.
Normal Octyl-Normal Decyl Tri-Mellitate	5,000 gal.
S-1011-35	5,000 gal.
F-203	30,000 gal.
1,6-Hexanediol	11,000 gal.
F-2403	6,000 gal.
F-2401	6,000 gal.
26TM	38,200 gal.
#6 Oil	105,000 gal.
C7C9TM	8,000 gal.
T-10TM	24,000 gal.
#2 Oil	34,700 gal.
Alcohols	7,650 gal.
Alcohol Strip	6,000 gal.
Ethylene Glycol	20,000 gal.
Diethylene Glycol	20,000 gal.
C7C9 Alcohol	55,000 gal.
2-Ethylhexanol	80,000 gal.
Isopropanol	8,000 gal.
Methyl Ethyl Ketone	6,500 gal.
Toluene	15,000 gal.
Dimethylformamide	10,000 gal.
Iso-octyl Alcohol	10,000 gal.
Adipic Acid	8,000 ft. <sup>3</sup>
Process Hold Tanks	8,200 gal.
Strip Hold Tanks	9,000 gal.
Empty Tanks	56,700 gal.
Incinerator Hold Tank	30,000 gal.
Incinerator Effluent Separator	4,000 gal.
Incinerator Effluent Receiver	16,000 gal.
TOTAL LIQUID STORAGE CAPACITY	664,950 gal.
TOTAL RAW MATERIAL SOLID STORAGE CAPACITY	8,000 ft. <sup>3</sup>

## B. STORAGE TANK LISTING BY LOCATION (SEE ATTACHED MAP)

<u>LOCATION A</u>			
<u>Tank No.</u>	<u>Contents</u>	<u>Volume</u>	
23	Alcohol Strip	2,000 gal.	} Compartmented Tank Car
24	Alcohol Strip	2,000 gal.	
25	Alcohol Strip	2,000 gal.	

HKR 001 0317

LOCATION A (cont'd)

<u>Tank No</u>	<u>Contents</u>	<u>Volume</u>	
26	Alcohol	2,550 gal.	} Compartmented Tank Car
27	Alcohol	2,550 gal.	
28	Alcohol	2,550 gal.	
A	2-Ethylhexanol	10,000 gal.	
B	2-Ethylhexanol	10,000 gal.	
C	Product	5,000 gal.	- empty
D	Di-octyl Adipate	5,000 gal.	
E	Iso-octyl Alcohol	5,000 gal.	
F	Iso-octyl Alcohol	5,000 gal.	
G	Alfol 610	10,000 gal.	
H	2-Ethylhexanol	10,000 gal.	
I	2-Ethylhexanol	10,000 gal.	
J	2-Ethylhexanol	5,000 gal.	} Compartmented Tank
K	Product	5,000 gal.	
L	Di-octyl Adipate	5,000 gal.	} Compartmented Tank
M	Di-octyl Adipate	5,000 gal.	

Materials in tank numbers 23 through 28 are received from another area of the site via tank truck. Materials in tanks A and B are received in bulk (tank truck), and transported to other plant areas in bulk (tank truck). Materials in tanks C and D are received in bulk (tank truck) from other plant areas and shipped in bulk (tank truck) off the site. Materials in tanks E through J are received in bulk (tank truck). Materials in tanks K, L, and M are received from other plant areas in bulk (tank truck) and are shipped off the site in bulk (tank truck).

# LOCATION B

<u>Tank No</u>	<u>Contents</u>	<u>Volume</u>
14	#6 Oil	30,000 gal.
15	#6 Oil	30,000 gal.
16	Incinerator Hold	30,000 gal. - empty
17A	26TM	8,000 gal.
17B	26TM	8,000 gal.
17C	C <sub>7</sub> C <sub>9</sub> TM	8,000 gal.
18A	T10TM	8,000 gal.
18B	T10TM	8,000 gal.
18C	T10TM	8,000 gal.
19A	#2 Oil	12,500 gal.
19B	#2 Oil	12,500 gal.
20A	#6 Oil	12,500 gal.
20B	#6 Oil	12,500 gal.
21		5,000 gal. - empty
22		5,000 gal. - empty
Silo 1	Adipic Acid	4,000 ft <sup>3</sup> - solid
Silo 2	Adipic Acid	4,000 ft <sup>3</sup> - solid

Material in tanks 14 and 15 is received in tank trucks, and shipped to tanks 1 and 2 (Location C) in tank trucks. Material in tank 16 is received by tank truck or internal pipe. Materials in tanks 17 A-C and 18A-C are received by tank truck from other plant areas and shipped off-site in tank trucks. Material in tank 19A-B is received by tank truck and transported to tanks 3 and 4 (Location C) by tank truck. Material in tanks 20A-B is received in tank trucks and transported to tanks 1 and 2 (Location C) in tank trucks. The material in silos 1 and 2 is received by railcar or tank truck.

LOCATION C

<u>Tank No</u>	<u>Contents</u>	<u>Volume</u>
1	Ethylene Glycol	5,000 gal.
2	1,4 - Butanediol	5,000 gal.
3	261M	5,000 gal.
4	N1M	5,000 gal.
4A	S-1011-35	5,000 gal.
5	F203	10,000 gal.
6	F203	10,000 gal.
7	1,6 - Hexanediol	11,000 gal.
10A	F2403	6,000 gal.
10B	F2401	6,000 gal.
11A	261M	5,000 gal.
11B	261M	5,000 gal.
12A	F203	5,000 gal.
12B	F203	5,000 gal.

Materials in tanks 1 and 2 are received in tank truck and piped to other plant areas. Materials in tanks 3 and 4 are received by tank truck from other plant areas and shipped off-site in tank trucks or drums. Material in tank 4A is received by pipeline from other plant areas and shipped off-site in tank trucks or drums. Materials in tanks 5 and 6 are received by pipeline from other plant areas and shipped off-site in tank trucks or drums. Material in tank 7 is received in tank cars or tank trucks and piped to other plant areas. Material in tanks 11A-B is received from other plant areas in tank trucks and shipped off-site in tank trucks or drums. Materials in tanks 10A-B and 12A-B are received by pipeline from other plant areas and shipped off-site in tank trucks or drums.



LOCATION D

<u>Tank No</u>	<u>Contents</u>	<u>Volume</u>
A	Hold Tank	1,000 gal.
B	Hold Tank	1,000 gal.
C	Hold Tank	1,000 gal.
D	Hold Tank	1,250 gal.
E	Hold Tank	1,250 gal.
F	Hold Tank	1,350 gal.
G	Hold Tank	1,350 gal.
	Strip Tanks	9,000 gal. - Total
		(18 ea at 500 gal)

Materials in tanks A through G are received by pipeline from other plant areas and transported to various storage tanks by pipeline. Materials in the strip tanks are received by pipeline from other plant areas and transported to other plant areas by pipeline.

LOCATION E

<u>Tank No</u>	<u>Contents</u>	<u>Volume</u>
29	Ethylene Glycol	20,000 gal.
30	Diethylene/Propylene Glycol	20,000 gal.

Materials in tanks 29 and 30 are received by tankcar and tank truck and transported to other plant areas by pipeline.

LOCATION 1

<u>Tank No</u>	<u>Contents</u>	<u>Volume</u>
1	#6 Oil	10,000 gal.
2	#6 Oil	10,000 gal.
3	#2 Oil	3,000 gal.

Materials are received in tank trucks and transported to other plant areas by pipeline.

LOCATION C

<u>Tank No</u>	<u>Contents</u>	<u>Volume</u>
202	261M	12,200 gal.
203		12,200 gal - empty
6		5,000 gal. - empty
7		5,000 gal. - empty
.. 10		12,500 gal. -empty

Materials in tanks 202 and 203 are received by pipeline from other plant areas and shipped off-site in tank cars or tank trucks; or are transported to storage tanks by pipeline.

LOCATION II

<u>Tank No</u>	<u>Contents</u>	<u>Volume</u>	
31	2-Ethylhexanol	30,000	gal.
32	2-Ethylhexanol	25,000	gal.
33	2-Ethylhexanol	25,000	gal.
	Isopropanol	8,000	gal.
	Methyl Ethyl Ketone	6,500	gal.
	Toluene	15,000	gal.
	Dimethylformamide	10,000	gal.

} Compartmented Tank

materials are received in tank trucks and transported to other plant areas by pipeline.

HKR 001 0325

LOCATION 1

<u>Tank No</u>	<u>Contents</u>	<u>Volume</u>
4	#2 Oil	3,700 gal.

Material is received by tank truck and transported to other plant areas by pipeline.

LOCATION J

Tank No

Contents

Volume

2,000 gal. - empty

HKR 001 0327

LOCATION K

<u>Tank No.</u>	<u>Contents</u>	<u>Volume</u>
Effluent Separator	Effluent	4,000 gal.
Effluent Receiver	Effluent	16,000 gal.

Effluent separator is an open top concrete tank designed to separate solids from incineratorable effluent.

Effluent receiver is an open top compartmented (4) concrete tank used to collect and store effluent prior to incineration. One compartment is agitated, and from this compartment effluent is pumped to the incinerator.



# ENVIRONMENTAL ACTION INPUT SHEET

Folio: 62707 (5) Date Entered: 6/19/81 (6) Agency: N.Y. STATE DEC (25)

Industry Group: P&CS (4) Division: FAB. PDTS. (4) Location: Hicksville, NY 11802 (20)

Type of Folio: Request for information (20) Number of Items Included: 1 (4)

Notice Date: 6/9/81 (6) Thru: \_\_\_\_\_ (6) Date Alleged Occur: \_\_\_\_\_ (6) Thru: \_\_\_\_\_ (6)

Date of Next Action: \_\_\_\_\_ (6)

Allegation: \_\_\_\_\_ (55)

\_\_\_\_\_ (55)

Action Requested: Request for information (underground injection control) (55)

\_\_\_\_\_ (55)

Current Status: \_\_\_\_\_ (55)

\_\_\_\_\_ (55)

Penalty Propsd: \_\_\_\_\_ (20)

Disposition When Closed: \_\_\_\_\_ (48)

Net Payment: \_\_\_\_\_ (6) Cost of Corrective Action: \_\_\_\_\_ (6)

Date of Completion of Corrective Action: \_\_\_\_\_ (6) Date Closed: \_\_\_\_\_ (6)

Comments: \_\_\_\_\_ (55)

Contact Name: Phillip B. DeVries (20) Contact Tel. No.: (516) 931-8100 (10)

# **Hooker RUCO** DIVISION

NEW SOUTH ROAD, HICKSVILLE, NEW YORK 11802  
PHONE (516) 931-8100

June 19, 1981

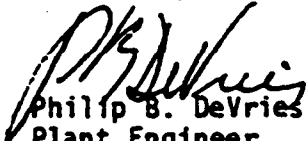
Mr. Dan Meszler  
New York State Dept. of Environ. Conservation  
Bureau of Permits & Compliance  
50 Wolf Road - Room 201  
Albany, NY 12233

Dear Mr. Meszler:

Attached Underground Injection Control Questionnaire for the Hicksville facility, Hooker Chemicals & Plastics Corporation, is forwarded in compliance with your request.

As per your conversation with John Hanna of Whiteman, Osterman & Hanna, we have not included any sump that is shallower than its largest surface dimension.

Very truly yours,

  
Philip B. DeVries  
Plant Engineer

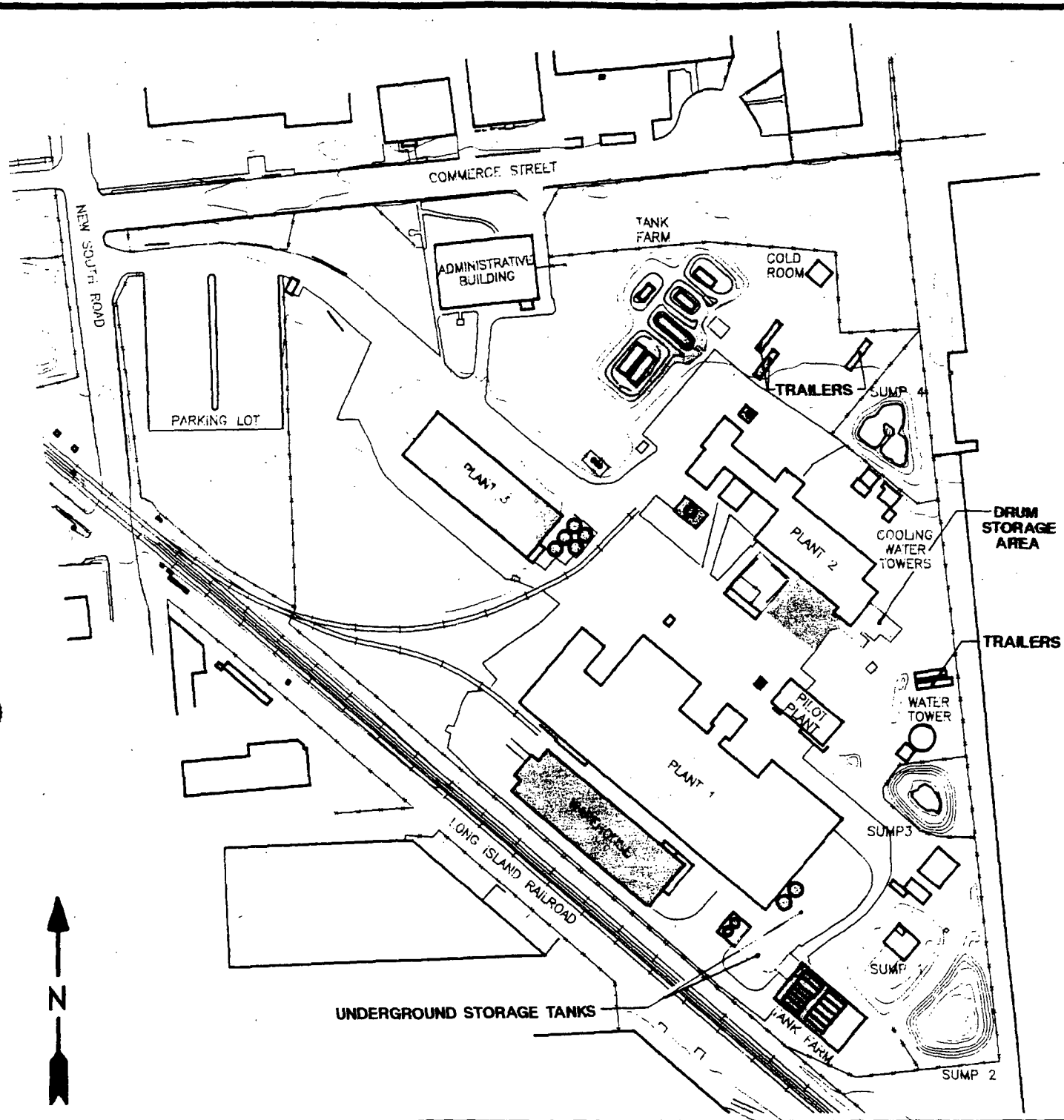
PBD:sg/engr. 3965

Attachments

CERTIFIED MAIL  
RECEIPT REQUESTED

bc: J.B. Harrison  
G. Dubec  
A. Katona  
John Hanna

HKR 001 0330



**LEGEND**

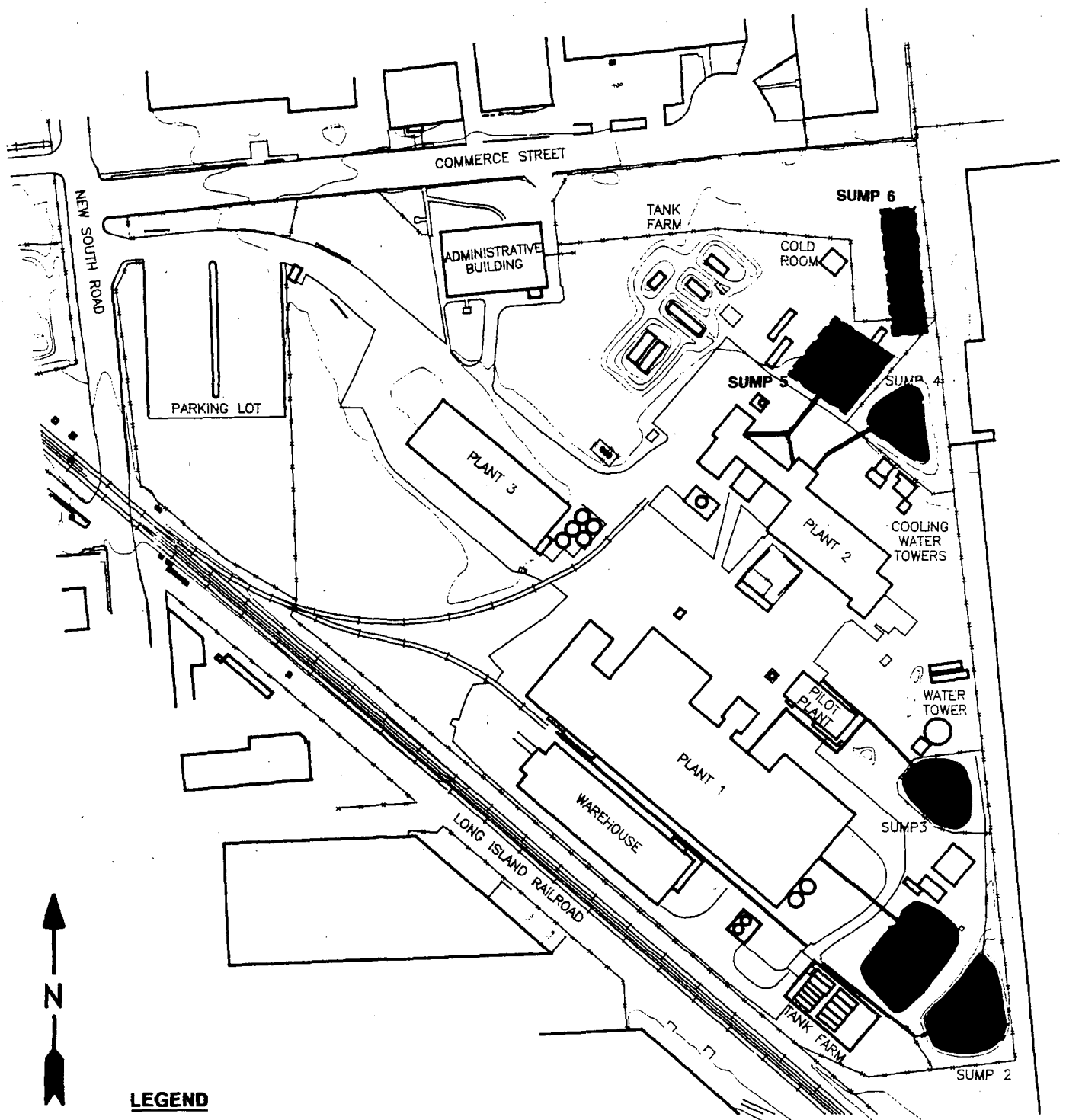

**CHEMICAL STORAGE AREAS**

0  50  
 SCALE IN FEET

**OCCIDENTAL CHEMICAL CORPORATION**  
**HOOKE/RUCO SITE**  
**HICKSVILLE, NEW YORK**

**CHEMICAL STORAGE AREAS AT THE HOOKE/RUCO SITE**

DATE	REVISIONS	PREPARED BY: LEGGETTE, BRASHEARS & GRAHAM, INC. Professional Ground-Water Consultants 72 Danbury Road Wilton, CT 06897 (203) 782-1207
DATE:		FIGURE



# **LEGEND**

- EXISTING PIPING,  
TRENCHES OR DITCHES
- PREVIOUS LOCATIONS  
OF TRENCHING,  
DITCHES OR SUMPS  
THAT ARE NO LONGER  
ACTIVE

0 50  
SCALE IN FEET

## **OCCIDENTAL CHEMICAL CORPORATION HOOKER/RUCO SITE HICKSVILLE, NEW YORK**

### **WASTE-WATER DISPOSAL NETWORKS AT THE HOOKER/RUCO SITE**

DATE	REVISIONS	PREPARED BY: LEGGETTE, BRASHEARS & GRAHAM, INC. Professional Ground-Water Consultants 72 Danbury Road Wilton, CT 06897 (203) 762-1207
DATE:		FIGURE

(U.I.C.) Program

1 BUSINESS NAME AND LOCATION

NAME:	HOOKER CHEMICALS & PLASTICS CORP.		
STREET ADDRESS:	New South Road		
CITY:	STATE:	COUNTY:	ZIP:
Hicksville	NY	Nassau	11802

2 TYPE OF OWNERSHIP (check one)

☒ PRIVATE ☐ PUBLIC ☐ STATE ☐ FEDERAL ☐ OTHER (specify)

3 DESCRIBE NATURE OF BUSINESS

Manufacture of Specialty Polymers and chemicals for the plastics industry.

OWNERS / OPERATORS NAME AND ADDRESS

COMPANY NAME:	HOOKER CHEMICALS & PLASTICS CORP.		
STREET ADDRESS:	New South Road		
CITY:	STATE:	COUNTY:	ZIP:
Hicksville	New York	Nassau	11802
OPERATORS NAME (if different from owner):			
STREET ADDRESS:			
CITY:	STATE:	COUNTY:	ZIP:

DISCHARGE INFORMATION

PLEASE PROVIDE THE REQUESTED INFORMATION FOR EACH DISCHARGE FROM YOUR FACILITY ON THE DISCHARGE INFORMATION SHEET APPENDIX A THAT FOLLOWS.

DISCHARGE FACILITY LOCATION

PLEASE INDICATE ON A SKETCH (OR MAP IF AVAILABLE) THE LOCATION OF EACH DISCHARGE FACILITY; BE SURE TO REFERENCE THE LOCATIONS TO AN EXISTING STREET OR HIGHWAY OR OTHER APPROPRIATE LANDMARK.

CONTACT

PLEASE INDICATE THE PERSON TO CONTACT IF FURTHER QUESTIONS ARISE.

NAME:	Philip B. DeVries		
TITLE:	TELEPHONE NUMBER:		
Plant Engineer	(516) 931-8100		
MAILING ADDRESS:			
Hooker Chemicals & Plastics Corp. - New South Road			
CITY:	STATE:	COUNTY:	ZIP:
Hicksville	NY	Nassau	11802

REPORTER'S INFORMATION

NAME:	TITLE:	DATE:
Philip B. DeVries	Plant Engineer	June 15, 1981
SIGNATURE:		
<i>Philip B. DeVries</i>		

HKR 001 0333

# APPENDIX A

## DISCHARGE INFORMATION

DISCHARGE NUMBER: 002 TYPE AND NAME OF FLUID OR WASTE BEING DISCHARGED: per SPDES permit Sanitary Wastes from Plant

ALL SUBSTANCES CONTAINED IN DISCHARGED FLUID OR WASTE WHICH ARE PRESENT AS A RESULT OF YOUR OPERATIONS, ACTIVITIES OR PROCESSES AND INDICATE THE AVERAGE CONCENTRATION (IN MG/L) AND THE AMOUNT GENERATED (IN KG/MO) FOR EACH

None (apparent sanitary waste)

STATUS OF FACILITY:

UC P E  
TA PA AN

☐ SURFACE DISCHARGE  
☒ SUBSURFACE DISCHARGE

NORMAL USE OF DISCHARGE FACILITY (storage, disposal, etc.):

Disposal

TYPE AND DESCRIPTION OF DISCHARGE FACILITY (include depth and lateral dimensions, design flow, actual flow, etc.):

5 septic tanks, approximate dimensions [2 - 5' - 0" X 10' - 0" laterally & 6' deep  
[2 - 6' - 0" X 10' - 0" laterally & 6' deep  
[1 - 4' - 6" dia. laterally & 12' deep

Total Design flow - 4,000 gallons/day  
Actual flow - 3,000 gallons/day

Milligrams per liter

Kilograms per month during an average month

UC—Under construction

E—Existing

P—Proposed

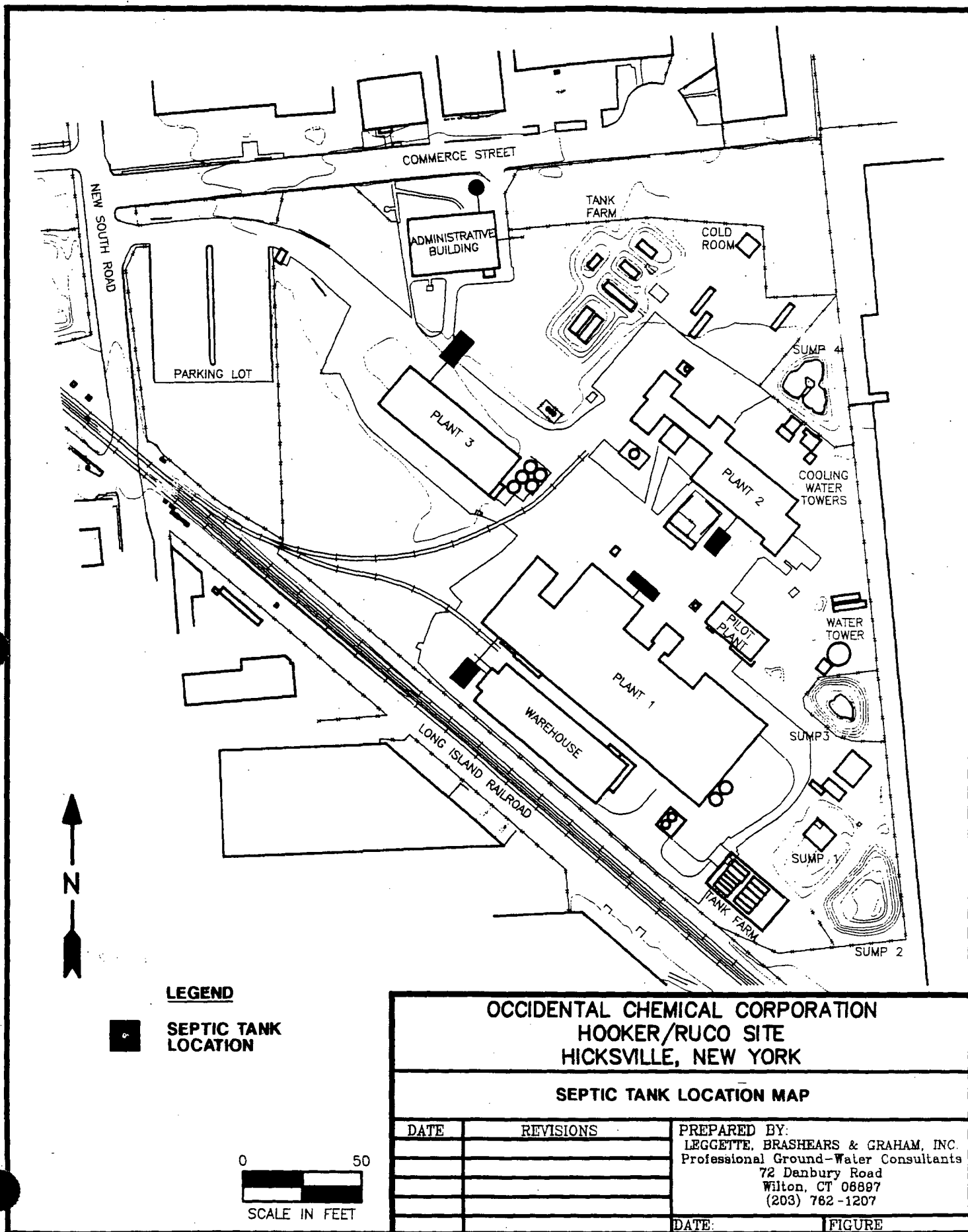
TA—Temporarily abandoned (indicate date and expected length of abandonment in space above boxes)

PA—Permanently abandoned and approved by the State (give date)

AN—Permanently abandoned and not approved by the State (give date)

IF ENOUGH DISCHARGE INFORMATION SHEETS ARE NOT PROVIDED,  
PLEASE MAKE COPIES SO THAT EVERY DISCHARGE IS REPORTED

HKR 001 0334



**OCCIDENTAL CHEMICAL CORPORATION  
HOOKER/RUCO SITE  
HICKSVILLE, NEW YORK**

**SEPTIC TANK LOCATION MAP**

DATE	REVISIONS	PREPARED BY: LEGGETTE, BRASHEARS & GRAHAM, INC. Professional Ground-Water Consultants 72 Danbury Road Wilton, CT 06897 (203) 762-1207
DATE:		FIGURE

HKR 001 0335

**hooker RUCO** DIVISION

NEW SOUTH ROAD, HICKSVILLE, NEW YORK 11802  
PHONE (516) 931-8100

Jan. 5, 1977

Mr. John F. Welsch  
Nassau County Department of Health  
Bureau of Water Pollution Control  
240 Old Country Road  
Mineola, N.Y. 11501

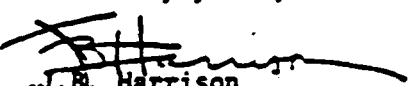
Dear Mr. Welsch:

On 11/29/76 you wrote our Mr. Philip DeVries, requesting an update list of chemicals purchased and used by Hooker at the Hicksville plant. You requested this information in the form of an update, and also over the last seven years.

In response to your request, we are supplying you with lists of chemicals purchased and used at Hicksville as follows:

- a. Raw materials used by the Chemicals & Plastics Group RUCO Division, Hicksville, 1970,
- b. Raw Material Requirement, Hooker Chemical/RUCO Division, Hicksville plant, calendar year 1971,
- c. Raw Material Requirement, Hooker Chemical/RUCO Division, Hicksville plant, calendar year 1972,
- d. Raw Material Requirement, Hooker Chemical/RUCO Division, Hicksville plant, calendar year 1973,
- e. Raw Material Requirement, Hooker Chemical/RUCO Division, Chemical Business Area, calendar year 1974,
- f. Raw Material Requirement, Hooker Chemical/RUCO Division, Chemical Business Area, calendar year 1975,
- g. Raw Material Requirement, Hooker Chemical/RUCO Division, Chemical Business Area, calendar year 1976,
- h. Hicksville Dry Blends plant, Raw Materials Used 1973, 1974, 1975, 1976.

Sincerely yours,

  
J.B. Harrison  
Plant Manager

Enclosures  
sg/MA-3089-7

HKR 001 0336



h.

RESEARCH  
DEPT. OF THE ARMY  
RAW MATERIALS 1960, 1973, 1974, 1975, 1976

RAW MATERIAL DESCRIPTION:

3158 (Ceneco Resin 10155)  
B-155 (B-155) Resin  
B-221 (B-221) Resin  
B-303 (B-303) Resin  
Irvitol 537 Resin  
Kane Ace 522  
Aldo 98. (Gowar 6000)  
Ibsicht Wax E  
Glycolite PC  
25 Zirs Toner  
161 8071 (Synpron 1011, IM 180)  
Barium Stearate (Synpron 160)  
Acrasax C  
Raven 1035 (Regal 300, N219, 999 Powder, Sapechia)  
K 120 NO  
K 120 N (Supercryl 100)  
Ti O<sub>2</sub>  
Calcium Stearate  
XL 165 (Rosswax 165, Aristowax 165)  
AC 629A  
K 125  
Oxylite 95 T  
Adher Tint  
Oxylite  
T-31  
T-20  
Poly Flo PVN  
CC 7500  
CC 10  
AM 229  
Rhodoriol  
Kane Ace PA 20  
Vinylube 56  
Synpron 1337  
Drapex 6.8  
RUP  
Lubrol TSC  
Irvitol 540 & 640 Resin  
B-202 Resin (Ceneco 10R)  
Glycolite 300  
Geon 654  
DCA  
Synpron 1135  
Timwin P  
AM 52 SB  
DR AVI 47  
Mark 900  
Mark 1500

Therm 815  
Therm 831  
Forerest 2281  
Cord 811  
Mark 127  
340-1  
539-7  
65% Rutile  
35 Black D  
Toner BB 161 P  
G-62 (Vikoflex 7170)  
Calcium Zinc Toner  
Mark 996  
Mark 1500  
11 21rs  
Stanton D1005  
Iryinol 659  
CPB 3614  
Cab-O-Sil  
Tifare R-101  
K5 229  
T 106  
Advawax 140  
B-342 Resin  
K-214-12  
Escoflex 150  
Nvostab V982  
Mark 292  
Mark 583  
A-28 Resin  
Synpron 768  
Celogen AZ  
FDA Toner  
DIN  
Mark AS  
Mark C  
Stearic Acid  
B-341 Resin  
EP-8  
EP-0  
Drapex 1.4  
Ultra Marine Blue  
EG-100  
PFR 100  
Fintore Plast.  
Staflax 626  
VC-111  
DIO

a.

HOOKER CHEMICAL & PLASTICS GROUP

RUCO DIVISION

11/16/66

1470

Raw Material Description

Chem 233 2-Ethyl Hexanol  
Chem 1002 Perchloroethylene  
Chem 1003 Phthalic Anhydride  
Chem 1004 Iso Octyl Alcohol  
Chem 1008 Adipic Acid  
Chem 1010 Butyl Alcohol  
Chem 1015 Triethylene Glycol  
Chem 1022 Iso Decyl Alcohol  
Chem 1032 Fumaric Acid  
Chem 1033 Maleic Anhydride  
Chem 1055 Tri Decyl Alcohol  
Chem 1060 Ethylene Glycol  
Chem 1061 1, 4 Butanediol  
Chem 1074 Methyl Amyl Alcohol  
Chem 1093 Methylene 2208  
Chem 1094 Methylene 2209  
Chem 1102 Iso Phthalic Acid  
Chem 1117 Trimellitic Anhydride  
Chem 1120 Hylene TM  
Chem 1122 Cellulose Acetate Butyrate  
Chem 1124 Ethyl Acetate  
Chem 1125 Toluol  
Chem 1129 Glycol Blend  
Chem 1138 Azelaic Acid  
Chem 1145 Alfol 610  
Chem 1149 Di Methyl Formamide  
Chem 1152 Isopropanol  
Chem 1164 Di Iso Butyl Carbinol  
Chem 1177 Croco 6 Oleic Acid  
Chem 2042 1, 6 Hexane Diol  
Chem 2043 Iso Butyl Alcohol  
Chem 2044 Multirathane M  
Chem 2056 Alfol 810

JOKER CHEMICAL & PLASTICS GROUP

RUCO DIVISION

1970

Raw Material Description

Chem 2061 Neopentyl Glycol  
Chem 2062 Diethylene Glycol  
Chem 2074 Hylene W  
Chem 2083 Mondur TD 80  
Chem 2209 Methyl Cellosolve  
Chem 2257 N Propanol  
Soil 113 Xylol  
Soil 131 Methyl Ethyl Ketone

RESIN

Chem 1 Vinyl Chloride  
Chem 2 Trichlorethylene  
Chem 8 Vinyl Acetate

LATEX

Chem 25 Styrene  
Chem 26 Butadiene  
Chem 35 Dresinate 731

DRY BLEND & PELLETS

Syn 965 VC-65 Resin  
Syn 966 Blacar 384 or VC-113 Resin  
Syn 971 VC-95 Resin  
Syn 986 VC-80 Resin  
Syn 994 Acryloid K 120-N  
Syn 998 C-155 Rucon Resin  
Syn 1007 Kane Ace B-12  
Syn 1008 B-28 Rucon Resin  
Syn 1009 B-22 Rucon Resin  
Syn 1013 B-20 Rucon Resin  
Syn 1016 E-34 Rucon Resin  
Syn 1048 KM-636

OKER CHEMICAL & PLASTICS GROUP

RUCO DIVISION

1970

Raw Material Description

DRY BLEND & PELLETS (cont'd.)

Chem 1160 Advawax 140  
Chem 2053 Adol RP Glycolube  
Chem 2069 M & T 831  
Chem 2119 M & T 813  
Chem 2020 TM 918\*  
Chem 2081 RO 37\*  
Chem 2178 Mark 1197

b.

**RAW MATERIAL REQUIREMENT**  
**HOOKER CHEMICAL/IRCO DIVISION-MCKEYVILLE PLANT**  
**CALENDAR YEAR 1971**

<u>CODE #</u>	<u>Material Description</u>
Chem 1	Vinyl Chloride
5	Lauroyl Peroxide
7	Gelatin
11	Acetic Acid
25	Styrene Monomer
26	Butadiene
27	Potassium Persulfate
28	Dodecyl Mercaptan
29	Dresinate 208 70%
35	Dresinate #731
37	Methocel 65 HG 50 C-5
39	Potassium Chloride
41	Di Vinyl Benzene
154	Aqua Ammonia
159	Formaldehyde 40%
163	Oleic Acid
166	Potash Caustic Flake
175	Triethanolamine
197	Silicate of Soda
228	Tetra Ethanol Ammonia
233	2-Ethyl Hexanol
1001	Toluene Sulphonic Acid
1002	Perchloroethylene
1003	Phthalic Anhydride
1004	Iso-Octyl Alcohol
1008	Adipic Acid
1010	Butyl Alcohol
1015	Triethylene Glycol
1016	Stabilizer 13-V-5MA
1022	Iso Decyl Alcohol
1023	Bisphenol "A"
1032	Fumaric Acid
1033	Maleic Anhydride
1035	Pelargonic Acid
1055	Tri Decyl Alcohol
1056	1,3 Butylene Glycol
1060	Ethylene Glycol
1061	1,4 Butanediol
1066	Glycerol
1072	Thermalite #12
1080	Neofat #16
1082	Bicarbonate of Soda
1093	Methyl Caprylate
1094	Methylene 2055
1102	Iso-Phthalic Acid
1117	Tricellitic Anhydride
1119	Tri Methylol Propane
1120	Hydrene T K
1121	Cellulose Acetate
1122	Cellulose Acetate Butyrate
1124	Ethyl Acetate
1125	Toluol
1126	Propylene Glycol
1127	Stannous Chloride
1128	P.M. 400 Glycol Blend

HKR 001 0342

1144	Tetra isopropyl Titanate
1145	Alfol-G-10 Alcohol
1149	Dimethyl Formamide
1152	Isopropanol
1158	Acrax C
1160	Advax 140
1162	Hoechst Wax E
1164	Di Iso Butyl Carbinol
1198	Synpron 160
2020	T M 918
2026	Stabilizer 8-V-1
2042	1,6 Hexanediol
2043	Iso-Butyl Alcohol
2044	Multrathane 17
• 2046	S-101 Polyester
• 2047	S-102-160 Polyester
• 2048	S-103 "
• 2049	S-105 "
2050	S-106 "
2053	Aldo R. P.
2056	Alfol 810
2061	Neopentyl Glycol
2062	Diethylene Glycol
• 2066	S-1019-75 Polyester
2069	T-831
2070	1,2,6 Hexane
2073	Poly G-1020 P Diol
2074	Hylene W
2081	Tin Stabilizer R-037
2101	Sarkosyl L
• 2104	CO-75 Polyurethane
2114	Tetra Hydro Furan
• 2115	CO-77 Polyurethane
2119	M & T 813
2122	Poly G 630 P
2130	Cab Intern Sol.
2142	Cymel 301
2143	Morpholine
2156	1010 Catalyst
• 2175	S-102-70 Polyester
• 2176	S-1015--135 "
2180	Thermolite T-9
• 2182	M D I Stearate
• 2183	T D I Stearate
• 2185	R-109-300 Polyester
2192	C S Grade Talc
1133	Stabilizer Synpron 512
MAIN	0 Water
1	Revertex
2	R. Revertex
20	Neoprene Latex Type
64	Regular Concentrate
• 83	Type 2000
• 85	Type 1009
• 86	Type 2000 L
EX	307 Clay - Ordinary
372	Hylflo Super-Cel
BAB	254 Darvan #1
256	Ymplphor
259	Nekal BA 75
271	Aquarex MDL Paste
285	Darvan #7
286	#955 Casein
287	Marasac





- 1 -

(C.)

**RAW MATERIAL REQUIREMENT**  
**HOOKER CHEMICAL/RUCO DIVISION-HICKSVILLE PLANT**  
**CALENDAR YEAR 1972**

Code #	Material Description
Chem 1	Vinyl Chloride Mono.
2	Trichlorethylene
5	Lauroyl Peroxide
7	Gelatin
8	Vinyl Acetate
25	Styrene Monomer
26	Butadiene
27	Potassium Persulfate
28	Dodecyl Mercaptan
35	Dresinate 731
37	Methocel 65 HG-50 CPS
39	Potassium Chloride
41	Divinyl Benzene
154	Aqua Ammonia
159	Formaldehyde 40%
163	Oleic Acid
166	Potash Caustic Tech.
175	Triethanolamine
197	"KV" Silicate of Soda
228	Tetra Ethanol Ammon.
233	2-Ethyl Hexanol
1001	Toluene Sulphonic
1002	Perchloroethylene
1003	Phthalic Anhydride
1004	Iso-octyl Alcohol
1005	Adipic Acid
1015	Triethylene Glycol
1016	Dibutyl Tin Di laurate
1020	Neofat #16
1022	Iso-Decyl Alcohol
1023	Bisphenol "A"
1032	Fumaric Acid
1033	Maleic Anhydride
1035	Pelargonie Acid
1055	Tri Decyl Alcohol
1060	Ethylene Glycol
1061	1,4 Butanediol
1066	Glycerol
1074	Methyl Amyl Alcohol
1082	Bicarbonate of Soda
1093	Methyl Caprylate

1094	Methylene 2855
1097	EC-100
1102	Iso-Phthalic Acid
1112	EC - 700
1117	Trimellitic Anhydride
1121	Cellosolve Acetate
1122	Cellulose Acetate But
1124	Ethyl Acetate
1125	Toluol
1127	Stannous Chloride
1129	P.M. 3866 Glycol Bl.
1144	Tetraisopropyl Titan.
1145	Alfol- 610 Alcohol
1149	Di Methyl Formamide
1152	Isopropanol
1158	Acrawax C
1164	Di-Iso Butyl Carbinol
1170	Mondur S
1181	Topanol CA
1187	Multrathon R-74
1198	Synnron 160
2026	Stabilizer 8-V-1
2042	1,6 Hexandeciol
2043	Iso Butyl Alcohol
2044	Multrathane M
* 2046	S-101-55 Polyester
* 2047	S-102-160 "
* 2048	S-103 "
* 2049	S-105 "
* 2050	S-106 "
* 2051	CO-20-S Polyurethane
2056	Alfol 810
2061	Neopentyl Glycol
2052	Diethylene Glycol
2065	Stabaxol I
* 2066	Polyester S-1019-75
2074	Hylene W
2053	Mondur TD 80
2114	Tetra Hydro-Furan
2117	1,4 Cyclohexanedicarb.
2140	T-18
2142	Cymel 301
2143	Morpholine
2156	1010 Catalyst
2162	Iso Nonyl Alcohol
2183	T D I Stearate
* 2155	S-103-35 Polyester
* 2191	S-1021-110 Polyester
2192	C S Grade Talc
* 2159	S-102 Polyester

2196	Chemetron Wax 100
2198	Di Ethylamine
* 2200	S-1011-35 Polyester
* 2201	F-101-60 "
2203	T M D I
2203	L-45 Silicone
2203	1,6 Hexamethylene
2209	Methyl Cellosolve
2211	Myristyl Helene W
2214	Carstan 8
2215	Carstan 18
* 2221	R-101-110 Polyester
* 2226	S-105-40 "
* 2227	S-1015-120-220 "
* 2228	XL 2269 L Prepolymer
* 2231	20% M T S A
2233	Surfactant 1165 G.P.
* 2237	S-1023-20 Polyester
2239	Kecinoleic Acid
* 2242	S-105-75-150 Polyester
* 2243	S-1021-70-150 "
* 2244	S-1019-75-200 "
* 2248	S-102-40-150 "
* 2249	S-105-55-78 "
* 2250	S-102-70-180 "
2256	Cyclohexane Bi Methv
2257	N-Propanol
* 2273	S-1019-15 & S-1019-55
<b>MAIN</b>	
0	Water
1	Revertex
2	60% Natural Latex
20	Neoprene Latex
<b>EX</b>	
307	Clay-Ordinary
372	Hyflo Sper-Cel
<b>DAB</b>	
254	Darvan
255	Emulphor
259	Nekal BA 75
271	Aquarox MDL Paste
286	#955 Cascin
287	Maizerse
288	Blancol N
<b>COLL</b>	
682	Gum Arabic
701	Methocel 100 Cps.

HKR 001 0347

702	Acrysol G S	122
708	Ludox Colloidal Sil.	36,912
709	Methocel 8000	17
<b>RODE</b>		
611	Water Soluble Deod.	13
<b>VULC</b>		
10	Neozone D	1
20	French Process Zinc O.	346
55	Zenite Special	60
58	AA-2246 Antioxidant	135
76	Tetron A	122
83	Aramate (Powder)	21
85	2,5 Diteritary Butyl	33
88	Super Fine Flour Sul.	119
89	Vandex	17
<b>MAIN</b>		
* 92	Type 2000 L (A-49)	714,587
* 93	Type 2000 (A-53)	177,303
* 100	Type 1009 (A-64)	616,140
<b>KEEP</b>		
755	Sowicide G.	50
<b>PIG</b>		
578	Continex S R F	126
588	Red-30	82
696	Darco L B	27,219
1362	Black C F	699
1376	Superba Black	12,600
1403	Nuchar C N	24,915
1441	Mogul A	7,380
1476	Titanox A 158-LO	127
<b>SOIL</b>		
113	Xylol	37,662
131	Methyl Ethyl Ketone	452,411
868	Experimental Wax Bld	179
886	Paraplex G-62	150
937	Caster Oil	9
<b>SYN</b>		
424	Hercolyn	10,634
463	VYHH Resin	4,525
900	Pent. A Sol IRS75xA	42,544
* 950	C-155	13,683,040
1000	VC-111	43,920
* 1005	E-1068S-1	12,937
1013	CB-6010 Resin	12,305,920

HKR  
001  
0348

d.

**RAW MATERIAL REQUIREMENT  
HOOKER CHEMICAL/RUCO DIVISION-HICKSVILLE PLANT  
CALENDAR YEAR 1973**

<u>CODE #</u>	<u>MATERIAL DESCRIPTION</u>
Chem 1	Vinyl Chloride
2	Trichlorethylene
5	Lauroyl Peroxide
7	Gelatin
8	Vinyl Acetate
25	Styrene
26	Butadiene
27	Potassium Persulfate
28	Dodecyl Mercaptan
29	Dresinate #208 70%
35	Dresinate #731 (70%)
37	Methocel 65 PG-50
39	Potassium Chloride
41	Divinyl Benzene
46	Dresinate #731 18% Sol
47	Dresinate #208 18% Sol
48	10% Emery 144 Sol.
154	Aqua Ammonia
159	Formaldehyde 40%
163	Oleic Acid
166	Potash Caustic Tech.
175	Triethanolamine
228	Tetra Ethanol Ammonia
233	2-Ethyl Hexanol **
1001	Toluene Sulphonic
1002	Perchloroethylene
1003	Phthalic Anhydride
1004	Iso-Octyl Alcohol
1008	Adipic Acid
1010	Butyl Alcohol
1014	Caprylic Acid
1015	Triethylene Glycol
1016	Dibutyl Tin Di Laurate
1022	Iso-Decyl Alcohol ***
1023	Bisphenol "A"
1032	Fumaric Acid
1033	Maleic Anhydride
1035	Pelargonic Acid
1040	Neofat 18-59

HKR 001 0349

1055	Tri Decyl Alcohol
1056	1,3 Butylene Glycol
1060	Ethylene Glycol
1061	1,4 Butanediol
1066	Glycerol
1072	T-12
1082	Bicarbonate of Soda
1093	Methylene #2208
1094	Methylene #2855
1097	BC-100
1102	Iso-Phthalic Acid
1112	BC-200
1117	Tricellitic Anhydride
1118	Emery #144
1124	Ethyl Acetate
1125	Toluol
1126	Propylene Glycol
1127	Stannous Chloride
1129	PZ 3C66 Glycol Blend
1133	Synaron 512
1144	Tetraisoobronyl Titanate
1145	Alfol-610 Alcohol
1149	Di Methyl Formamide
1152	Isopropanol
1164	Di-Iso Butyl Carbinol
1181	Topanol C A
2042	1,6 Hexanediol
2043	Iso Butyl Alcohol
2044	Poltrathane M
* 2046	S-101-55 Polyester
* 2047	S-102-160 "
* 2048	S-103-90 "
* 2049	S-105-120 "
* 2050	S-106-35 "
2061	Neopentyl Glycol
2062	Diethylene Glycol
2065	Stabaxol I
* 2066	Polyester S-1019-75
2073	Poly C 1020-P
2074	Hylene W
2083	Mondur TD 80
2114	Tetra Hydro-Furan
* 2115	CO-77 Urethane Sol.
2117	1,4 Cyclohexanedimeth.
2121	10% Formaldehyde
2122	Poly C 630
2125	Alfol #6
2126	C-10-12 Alcohol
2142	Cymel 401

* 2159	S-502 Polyester
2180	Thermolite T-9
2183	TBI Stearate
* 2186	S-103-35 Polyester
2192	C S Grade Talc
2196	Chemtron Wax 100
2198	Di Ethylamine
* 2200	S-1011-35 Polyester
* 2201	F-101-60
2206	L-45 Silicone
2206	1,6 Hexamethylene
2209	Methyl Cellosolve
2211	Myristyl Helene W
2214	Carstan 8
2215	Carstan 18
* 2218	Iso-Phorone Di-iso.
* 2226	S-105-40 Polyester
* 2227	S-1015-120-220 "
* 2231	20% M T S A
* 2242	S-105-75-150 Polyester
* 2243	S-1021-70-150 "
* 2244	S-1019-75-200 "
* 2247	S-101-55-150 "
* 2248	S-102-40-150 "
* 2250	S-102-70-120 "
2257	N-Propanol
* 2275	S-105-40-57 Polyester
2296	Chemtron Wax 100
2298	Moca
2299	30% AMP-MSA Cr.
* 2319	S-1022-20 Polyester
2320	Isophone Diamine
* 2346	S-1019-25 Polyester
2348	45% EAB 381.5 Lacc.
* 2349	S-103-25 Polyester
MAIN 0 Water	
1	Revertex 73%
2	60% Natural Latex
20	Neoprene Latex
* 101	Type 2000-53 (A-74)
* 102	Type 1009 (A-77)
* 104	Type 2000 (A-79)
EX 372 Hv Flo Super Cel	
MAB 254 Dervan #1	
256	Emulphor-on-870
259	Nekal BA 75
271	Aquarex MDL Paste

286 #95 Casein

**COLL**

682 Gum Arabic  
701 Methocel 100 Cps.  
702 Acrysol G. S.  
709 Methocel-8000

**RODE**

611 Water Soluble Deod.

**VULC**

10 Neozone D  
20 French Process Zinc O.  
55 Zenite Special  
56 AA-2246 Antioxidant  
76 Tetrone A  
83 Aramate (Powder)  
85 2,5 Ditertiary Butyl.  
88 Super Fine Flour Sul.  
89 Vandex

**KEEP**

755 Dowicide G.

**PIG**

578 Continex S R F  
588 Red-30  
696 Darco K B  
1493 Nuchar C N  
1476 Titanox A 168-L0

**SOIL**

113 Xvlol  
131 Methyl Ethyl Ketone  
868 Experimental Wax Rld.  
886 Paraplex G-62  
929 E P O  
937 Caster Oil

**SYN**

424 Herculyn D  
463 VYHN Resin  
900 Pentolyn A  
\* 1065 E-10598-1



e.

RAW MATERIAL REQUIREMENT  
HOOKER CHEMICAL/PUCO DIVISION-CHEMICAL BUSINESS AREA  
CALENDAR YEAR 1974

CODE	MATERIAL DESCRIPTION
Chem 1	Vinyl Chloride
2	Trichlorethylene
5	Lauroyl Peroxide
7	Gelatin
8	Vinyl Acetate
37	Methocel 65 PG-50
175	Triethanolamine
233	2-Ethyl Hexanol
1001	Toluene Sulphonic Acid
1002	Perchloroethylene
1003	Phthalic Anhydride
1004	Iso-Octyl Alcohol
1008	Adipic Acid
1015	Triethylene Glycol
1015	Dihetyl Tin Di Laurate
1022	Iso-Decyl Alcohol
1023	Bisphenol "A"
1033	Maleic Anhydride
1035	Palmaronic Acid
1055	Tri Decyl Alcohol
1056	1,3 Butylene Glycol
1060	Ethylene Glycol
1061	1,4 Butanediol
1066	Glycerol
1082	Bicarbonate of Soda
1093	Methylene #2208
1094	Methylene #2209
1097	EC-100
1102	Iso-Phthalic Acid
1117	Trimellitic Anhydride
1118	Emery #144
1125	Toluol
1125	Propylene Glycol
1127	Stannous Chloride
1129	PM 3556 Glycol Blend
1144	Tetraisopropyl Titanate
1145	Altel-610 Alcohol
1149	Di Methyl Formamide
1152	Isopropanol
1164	Di-Iso Butyl Carbinol
1181	Tocanol C A

HKR 001 0353

2021	Nonchit Wax OP
2042	1,6 Hexanedial
2043	1,6 Butyl Alcohol
2044	Diethylene Glycol
2045 *	S-101-35 Polyester
2047 *	S-102-160 "
2048 *	S-103-30 "
2049 *	S-105-120 "
2050 *	S-106-35
2056	Altol 810
2061	Neononyl Glycol
2062	Diethylene Glycol
2065	Stahaxol I
2073	Poly G 1020-P
2074	Hylene W
2083	Mendur TD 80
2114	Tetra Hydro-Furan
2117	1,4 Cyclohexanedimethanol
2122	Poly G 630
2141	T-15
2142	Camel 301
2159 *	S-502 Polyester
2180	Thermalign T-9
2185 *	R-109-300
2186 *	S-103-35 Polyester
2192	C S Grade Tale
2183	TDI Seccarate
2196	Chemelron Max 100
2198	Di Ethylamine
2200 *	S-1011-35 Polyester
2201 *	F-101-60
2205	L-45 Silicone
2208	1,6 Hexamethylene
2209	Methyl Cellosolve
2211	Methyl Cellosolve W
2214	Carstan 8
2218	Iso-Pherone Di-Iso.
2226 *	S-105-40 Polyester
2227 *	S-1015-120-220 Polyester
2232 *	S-105-75-150 Polyester
2233 *	S-1071-70-150
2234 *	S-1015-75-200 Polyester
2239 *	S-105-55-78
2250 *	S-102-70-160
2256	Cyclohexane Dio Methylamine
2257	N-Propanol
2273 *	S-1015-75-150
2275 *	S-105-40-57
2296 *	S-102-55-305
2299 *	30% AMP-MSA Cat.

HKR 001 0354

2319 *	S-1022-20 Polyn-ter
2320	Ironhane Diamine
2322 *	S-102-17-185
2334 *	S-105-75
2343	Ironox 1078
2346 *	S-1019-25-35
2348 *	454 EAB Sol.
2349 *	S-103-25
2350 *	S-1017-25
2352 *	S-1023-40-105
2354	Cymel 370
2360 *	S-105-40-118
2362 *	B-270-L Prepol
2365	Dabco (Solid)
2366	Silicone L-540
2367 *	S-1011-55
2378	Succinic Anhydride
2382	Harkure UL-6
2391	Mendax E-320
2393 *	S-1019-120-240
2395 *	S-105-75-167
2396	N-Methyl Ethanolamine
2403	Iscare 125-M
2404	Freon TF
2403 *	CO B 3436 L H Prepol
2415 *	Rucorlex BE-1
2416 *	Rucorlex F-1201
MAIN	0 Water
EX	372 Celite (Hyflow Super-cel)
COLL	70E Ludox "AS"
FIG	695 Darco K B
	1403 Huchar C N
	1576 Pigment A
SOIL	113 Xv101
	131 Methyl Ethyl Ketone
	886 Paranallex G-62
SYN	463 V111H Resin

(f.)

RAW MATERIAL REQUIREMENT  
HOOVER CHEMICAL RUO DIVISION-CHEMICAL BUSINESS AREA  
CALENDAR YEAR 1975

<u>CODE</u>		<u>MATERIAL DESCRIPTION</u>
Chem	1	Vinyl Chloride
	2	Trichlorethylene
	5	Lauroyl Peroxide
	7	Gelatin
	8	Vinyl Acetate
	37	Mathocel F-50
	175	Triethanolamine
	233	2-Ethyl Hexanol
	1001	Toluene Sulphonic Acid
	1002	Perchloroethylene
	1003	Phthalic Anhydride
	1004	Iso-Octyl Alcohol
	1005	Adipic Acid
	1125	Propylene Glycol
	1016	Dibutyl Tin Di Laurate
	1022	Iso-Decyl Alcohol
	1023	Bisphenol A
	1033	Maleic Anhydride
	1055	Tri-Decyl Alcohol
	1056	1,3 Butylene Glycol
	1060	Ethylene Glycol
	1061	1,4 Butanediol
	1066	Glycerol
	1082	Bicarbonate of Soda
	1097	BC-100
	1102	Iso-Phthalic Acid
	1117	Trimellitic Anhydride
	1124	Ethyl Acetate
	1125	Toluol
	1127	Stannous Chloride
	1129	PM 3866 Glycol Blend
	1144	Tetra Isopropyl Titanate
	1145	Alfol +610
	1149	Di Methyl Formamide
	1152	Isopropenol
	1164	Di-Iso Butyl Carbinol
	1161	Isopropanol CA
	2021	Hoechst Wax OP
	2032	1,6 Hexanediol
	2043	Iso Butyl Alcohol

2044	Multrathane M
2046 *	S-101-55 Polyester
2047 *	S-102-160 "
2048 *	S-103-90 "
2049 *	S-105-120 "
2050 *	S-106-35 "
2056	Alfol 610
2061	Neopentyl Glycol
2062	Diethylene Glycol
2065	Stabaxol I
2074	Hylene W
2083	Mondur TD 80
2114	Tetra Hydro-Furan
2117	1,4 Cyclohexanedimethanol
2122	Poly C-630
2142	Cymel 301
2185 *	R-109-300
2363 *	F-102-50 Polyester
2196	Chemtron Wax 100
2198	Di Ethylamine
2200 *	S-1011-35 Polyester
2206	L-45 Silicone
2209	1,6 Hexamethylene
2209	Methyl Cellosolve
2211	Myrstyl Helene W
2214	Carsten 8
2216	Iso-Phorone Di-Isocyanate
2226 *	S-105-40 Polyester
2227 *	S-1015-120-220 Polyester
2242 *	S-105-75-150 Polyester
2243 *	S-1021-70-150 "
2248 *	S-102-40-150 (305-183)
2250 *	S-102-70-180 Polyester
2257	N-Propanol
2273 *	S-1019-75-150 Polyester
2296 *	S-102-55-305 "
2299 *	30% AMP-MSA Cat.
2300	EAB-331-5
2320	Isophane Diamine
2322 *	S-102-37-185 Polyester
2330	EC 2600 Methane Sul. Acid
2331	AMP (Regular)
2332	Di Bromo Butanetriol
2334 *	S-105-75 Polyester
2343	Irganox 1070
2346 *	S-1019-25-35 Polyester
2348 *	45% EAB Sol.
2352 *	S-1023-40-106 Polyester
2359	Cymel 370
2360 *	S-105-40-118 Polyester

2368 *	S-1019-120 Polyester
2374	Acryloid AT-56
2375	Rayho 3
2391 *	S-1019-120-280 Polyester
2395 *	S-105-75-167
2417 *	S-1022-35
2418	Sodium Benzoate
2437 *	S-1019-100 Polyester
2438	Silicone PFA-1200
2159 *	F-109-60 Polyester
EX 372	Celite (Hyflow Super-cel)
COLL 708	Ludox "AS"
FIG 1577	Polycarbon C
1589	Nuchar C-115 N
1590	Norit SG Extra
SOIL 113	Xylol
124	Acetone
131	Methyl Ethyl Ketone
886	Paraplex G-62
SYN 463	VYHH Resin

	2458	Irranox #1035
	2460	Ionol
	2462 *	F-1403 Polyester
	2467 *	F-1016
	2468 *	S-1025-115 Polyester
	2469	Stannous Oxalate
	2470	De-ussr OK 412
	2472	N-3936-1, Prenol
	2473	Twern 20
	2474	Tritonx 405
	2475	Emulsifier Solution
	2476	Sodium Hydroxide
	2477	Acrysol ASE-75
	2478	12% H M D A
	2479	Thickener Solu: on
	2481	20% Sodium Hyd: xide
	2482 *	S-1019-55 Polyester
EX	372	Celite (Hvflow Super-cel)
FIG	1577	Pulverchar C
	1593	Nuchar C-EL-N
	1594	Activated Carbon C
SOIL	113	Xv101
	131	Methyl Ethyl Ketone
	886	Peraplex G-62
SYN	463	VYHH Resin
MAIN	0	Water

(5.)

**RAW MATERIAL REQUIREMENT**  
**HOOKER CHEMICAL/RUCO DIVISION-CHEMICAL BUSINESS AREA**  
**CALENDAR YEAR 1976**

<u>CODE</u>	<u>MATERIAL DESCRIPTION</u>
Chem 233	2-Ethyl Hexanol
1001	Toluene Sulphonic Acid
1002	Perchloroethylene
1003	Phthalic Anhydride
1004	Iso-Octyl Alcohol
1008	Adipic Acid
1014	Caprylic Acid
1015	Triethylene Glycol
1016	Dibutyl Tin Di Laurate
1022	Iso-Decyl Alcohol
1023	Bisphenol A
1033	Maleic Anhydride
1035	Ertac #1202
1055	Tri-Decyl Alcohol
1056	1,3 Butylene Glycol
1060	Ethylene Glycol
1061	1,4 Butanediol
1066	Glycerol
1082	Bicarbonate of Soda
1094	Methylene 2209
1097	BC-100
1102	Iso-Phthalic Acid
1117	Trimellitic Anhydride
1124	Ethyl Acetate
1125	Toluol
1126	Pronylene Glycol
1127	Stannous Chloride
1129	Glycol Blend Pm 3866
1144	Tetra Isopropyl Titanate
1145	Alfol #610
1146	Di Methyl Formamide
1152	Isopropanol
2042	1,6 Hexanediol
2043	Iso Butyl Alcohol
2044	Methylcyclohexane M
2046 *	S-101-55 Polyester
2047 *	S-102-160 Polyester
2049 *	S-105-120
2021	Roechst Wax



2050 *	S-106-35
2061	Neopentyl Glycol
2062	Dibethylene Glycol
2065	Stibazol I
2073	Poly G-1020 P
2074	Evlene U
2080	Di-Propylene Glycol
2083	Mondur TD 80
2114	Tetra Hydro-Furan
2117	1,4 Cyclohexanedimethanol
2122	Poly G-630
2128	1,1,1 Trichlorethane
2142	Cymel 301
2159 *	F-109-60 Polyester
2195	Chemtron Wax 100
2198	Di Ethylamine
2206	L-45 Silicone
2208	1,6 Hexamethylene
2209	Methyl Cellosolve
2211	Myrstyl Helene W
2214	Carstann 8
2218	Iso-Phorone Di-Isocyanate
2226 *	S-105-40 Polyester
2227 *	S-1015-120-220 Polyester
2242 *	S-105-75-150 Polyester
2243 *	S-1021-70-150 Polyester
2250 *	S-102-70-160 Polyester
2257	N-Propanol
2276 *	S-1015-80 Polyester
2281 *	S-1021-75 Polyester
2296 *	S-102-55-305
2299 *	302 AMP-MSA Cat.
2320	Isonhone Diamine
2322 *	S-102-87-185 Polyester
2330	EC 2690 Methane Sul. Acid
2331	AMP (Regular)
2334 *	S-105-75 Polyester
2343	Irganox 1076
2349 *	S-103-25 Polyester
2359	Cymel 370
2360 *	S-105-40-118 Polyester
2367 *	S-S-1011-55 Polyester
2393 *	S-1015-120-280
2395 *	S-105-75-167 Polyester
2417 *	S-1022-35 Polyester
2431 *	S-102-55 Polyester
2445 *	S-102-110 Polyester
2450	CAB 361-2
2456	Polymex #1000
2457	Tituvin #328

# hooker RUCO DIVISION

NEW SOUTH ROAD, HICKSVILLE, NEW YORK 11802  
PHONE (516) 931-8100 TWX 510 221-1871

May 6, 1975

Mr. John F. Welsch  
Supervisor of Industrial Waste  
Bureau of Water Pollution Control  
Nassau County Department of Health  
240 Old Country Road  
Mineola, N.Y. 11501

Dear John:

Attached are 3 (three) completed copies of the new application form "D" for SPDES permit.

Please refer to our correspondence of April 22, 1975 on the old SPDES form. Outfall numbers 001 and 002 no longer exist. (Hence 003-005 are renumbered 001-003). In the interum the decision was made to close this plant for PVC production. There are no plans to produce another product instead. However, if in the future and alternative product with a water discharge is made we will contact your office.

We feel the Hicksville Site is now in compliance with the water discharge regulations. Per our discussion today (May 6, 1975) discharges 001 to 003 do not require additional treatment. The incinerator for the esterification discharge has been running for several weeks, but with some problems. We expect them to be solved with-in 2 - 4 weeks and this discharge eliminated.

If you have any questions please do not hesitate to call.

Very truly yours,



Malcolm K. Brown  
Professional Engineer

# APPLICATION FORM "D" FOR A STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES) PERMIT (Becomes A SPDES Permit When Signed By Permit Issuing Official)

APPLICATION TYPE <input type="checkbox"/> Renewal <input checked="" type="checkbox"/> If RENEWAL, GIVE PREVIOUS NO. NY-	
NAME (Corporate, Partnership or Individual) Baker Chemical Corp./Ruco Division	
MAILING ADDRESS (State, City, State, Zip Code) New South Road, Hicksville, New York 11802	
ALL CORRESPONDENCE TO: (Name, Title and Address) J. Colm Brown	
TELEPHONE NO. (Include Area Code) 516 931-8100	
FACILITY NAME Baker Chemical Corp./Ruco Division	FACILITY LOCATION (Street or Road) New South Road
CITY, TOWN OR VILLAGE Hicksville	
GIVE EXPLICIT DIRECTIONS TO LOCATION, IF NECESSARY LUSAU	
NATURE OF BUSINESS OR TYPE OF FACILITY Manufacturing	
POPULATION SERVED (See Instructions)	
FREQUENCY OF DISCHARGE All Year? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If "No", Specify No. of Months _____ All Week? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If "No", Specify No. of Days _____	
DOES YOUR DISCHARGE CONTAIN OR IS IT POSSIBLE FOR YOUR DISCHARGE TO CONTAIN ONE OR MORE OF THE FOLLOWING SUBSTANCES ADDED AS A RESULT OF OPERATIONS, ACTIVITIES OR PROCESSES? Check: <input type="checkbox"/> Aluminum <input type="checkbox"/> Ammonia <input type="checkbox"/> Beryllium <input type="checkbox"/> Cadmium <input type="checkbox"/> Chlorine <input type="checkbox"/> Chromium <input type="checkbox"/> Copper <input type="checkbox"/> Cyanide <input type="checkbox"/> Grease <input type="checkbox"/> Lead <input type="checkbox"/> Mercury <input type="checkbox"/> Nickel <input type="checkbox"/> Oil <input type="checkbox"/> Phenols <input type="checkbox"/> Selenium <input type="checkbox"/> Zinc <input checked="" type="checkbox"/> None of These	
DISCHARGE DATA (Use additional forms, if necessary) (See Instructions)	
DISCHARGE NO. <input type="checkbox"/> Proposed <input checked="" type="checkbox"/> Existing 001	TYPE OF WASTE direct contact condenser water
TYPE OF TREATMENT none	DESIGN FLOW 10,000 Gal/D.
SURFACE DISCHARGE If "Yes", Name of Receiving Waters Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> S. Oyster Bay	
Classification Waters Index No.	
SURFACE DISCHARGE If "Yes", Name of nearest Surface Water Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> S. Oyster Bay	
Distance 5 miles ft. SOIL TYPE sandy Depth to Water Table 60 ft.	
DISCHARGE NO. <input type="checkbox"/> Proposed <input checked="" type="checkbox"/> Existing 002	TYPE OF WASTE Boiler/cooling water
TYPE OF TREATMENT none	DESIGN FLOW 15,000 Gal/D.
SURFACE DISCHARGE If "Yes", Name of Receiving Waters Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> S. Oyster Bay	
Classification Waters Index No.	
SURFACE DISCHARGE If "Yes", Name of nearest Surface Water Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> S. Oyster Bay	
Distance 5 miles ft. SOIL TYPE sandy Depth to Water Table 60 ft.	
DISCHARGE NO. <input type="checkbox"/> Proposed <input checked="" type="checkbox"/> Existing 003	TYPE OF WASTE sanitary
TYPE OF TREATMENT septic tank	DESIGN FLOW 4,000 Gal/D.
SURFACE DISCHARGE If "Yes", Name of Receiving Waters Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> S. Oyster Bay	
Classification Waters Index No.	
SURFACE DISCHARGE If "Yes", Name of nearest Surface Water Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> S. Oyster Bay	
Distance 5 miles ft. SOIL TYPE sandy Depth to Water Table 60 ft.	

I hereby affirm under penalty of perjury that information provided on this form and any attached supplemental forms is true to the best of my knowledge and belief. Statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

APPLICANT'S SIGNATURE (See Instructions) J. Bradley Harrison Date 5/8/75 Printed Name J. Bradley Harrison Title Works Manager

PERMIT VALIDATION SECTION  
(Department of Environmental Conservation Use Only)

APPLICATION NO.

NY-

EFFECTIVE DATE

EXPIRATION DATE

ATTACHMENTS:

This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the provisions of the Federal Water Pollution Control Act, as amended by the Federal Water Pollution Control Act Amendments of 1972, P.L. 92-500, October 18, 1972 (33 U.S.C. §1251 et. seq.) (hereinafter referred to as "the Act"), and subject to the attached conditions.

Signature of Permit Issuing Official

Date

CARD	Type	Type	SIC Code	8 (Full)	Dis	Class	CARD	Region	County	Major	Sub	Compact	CARD	Latitude	Longitude	CARD	Line
1	100	100	20	71	4	76	3	71	72	74	76	78	6	53	59	64	7

HKR 001 0363



**APPENDIX 2**  
**Chain of Custodies**

HKR 001 0365

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical Corp.</i>			NO OF CONTAINERS	<div style="display: flex; justify-content: space-between;"> <div> <i>TCL VOAS</i>  <i>TCL Semivolatile</i>  <i>TCL METALS</i>  <i>TCL PEST/PCBS</i> </div> <div>ANALYSES</div> </div>										REMARKS		SAM ID NO. (for lab use only)	
SITE <i>Hooker Ruco</i>																	
COLLECTED BY (Signature) <i>Keith F. Ellis</i>																	
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME															
<i>S28501001A1</i>	<i>Soil</i>	<i>10/03/89 1015</i>	<i>5</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>										
<i>S28601002A1</i>	<i>Soil</i>	<i>10/03/89 1040</i>	<i>5</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>										
<i>S28702001A1</i>	<i>Soil</i>	<i>10/03/89 1115</i>	<i>5</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>										
<i>S28802002A1</i>	<i>Soil</i>	<i>10/03/89 1140</i>	<i>5</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>										
<i>S28903001A1</i>	<i>Soil</i>	<i>10/03/89 1410</i>	<i>5</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>										
REMARKS														RELINQUISHED BY: <i>Keith F. Ellis</i>		DATE <i>10/3</i>	TIME <i>1200</i>
RECEIVED BY: <i>Federal Express</i>	DATE <i>10/3</i>	TIME <i>1800</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME						
<i>3507470400</i>																	
LAB USE ONLY																	
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION								
REMARKS																	

HKR 001 0366

4-88-30337

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical Corp</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooksett / Rye</i>				TCL VOC	TCL Semi VOC / NORA	TCL AEST / PCB	TCL METAL	TCL CYANIDE							
COLLECTED BY (Signature) <i>Willi Fub</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
<i>S290 03 002 A1</i>	<i>SOIL</i>	<i>10-3-89 1440</i>	<i>5</i>	<i>x</i>	<i>x</i>	<i>7</i>	<i>x</i>	<i>x</i>							
<i>S291 04 001 A1</i>	<i>SOIL</i>	<i>10-3-89</i>	<i>5</i>	<i>+</i>	<i>+</i>	<i>x</i>	<i>+</i>	<i>+</i>							
<i>S291 04 001 A2</i>	<i>SOIL</i>	<i>10-3-89</i>	<i>5</i>	<i>+</i>	<i>+</i>	<i>x</i>	<i>+</i>	<i>+</i>							
<i>S292 04 002 A1</i>	<i>SOIL</i>	<i>10-3-89</i>	<i>5</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>							
REMARKS												RELINQUISHED BY: <i>Willi Fub</i>	DATE <i>10/3</i>	TIME <i>1500</i>	
RECEIVED BY: <i>Federal Express</i>	DATE <i>10/3</i>	TIME <i>1900</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME				
<i>Air Bill # 350747 0290</i>												LAB USE ONLY			
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:			DATE	TIME	TEMP °C	SEAL #	CONDITION				
REMARKS															

HKR 001 0367

## Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT occidental chemical corp			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE Hooker / Roco				TCL VOCs	TCL Semi-vol	TCL PEST / PCB	TCL METALS	TCL CYANIDE							
COLLECTED BY (Signature) William F. W.															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
S 293 FB001 A3	WATER	10-3-89 1230	6	X	X	X	X	X							
S 294 WB001 A3	WATER	10-3-89 1715	6	X	X	X	X	X							
S 295 FB001 A3	WATER	10-3-89 1745	6	X	X	X	X	X							
S 296 TB001 A3	WATER	10-3-89 1750	2	X											
REMARKS												RELINQUISHED BY with F.W.	DATE 10/3	TIME 1900	
RECEIVED BY: Fidel EXPRESS	DATE 10/3	TIME 1900	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	
0:23:11 # 3502470385															
LAB USE ONLY															
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION						
REMARKS															

HKR 001 0368



# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical Corp</i>			NO. OF CONTAINERS	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TEL VOA</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TEL Semi VOA / MCA</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TEL PEST / REA</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TEL metals - CHMide</div> </div>																								
SITE <i>Hooker / Reco</i>																												
COLLECTED BY (Signature) <i>Will FHS</i>																												
FIELD SAMPLE I.D.																												
SAMPLE MATRIX			DATE/TIME			REMARKS										SAM ID NO. (for lab use only)												
<i>S29705001 A1</i>			<i>Soil</i>			<i>10/4/1005</i>			<i>5</i>																			
<i>S29805002 A1</i>			<i>Soil</i>			<i>10/4 1355</i>			<i>5</i>																			
<i>S29905003 A1</i>			<i>Soil</i>			<i>10/4 1440</i>			<i>5</i>																			
REMARKS															RELINQUISHED BY: <i>Will FHS</i>					DATE <i>10/4</i>		TIME <i>1900</i>						
RECEIVED BY: <i>FD spence</i>			DATE <i>10/4</i>		TIME <i>1900</i>		RELINQUISHED BY:					DATE		TIME		RECEIVED BY:					DATE		TIME					
<i>Air Bill # 3527470201</i>															LAB USE ONLY													
RECEIVED FOR LABORATORY BY:					DATE		TIME		AIRBILL NO.					OPENED BY:					DATE		TIME		TEMP°C		SEAL #		CONDITION	
REMARKS																												

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT Occidental Chemical Corp.			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)																												
SITE Hwy 101 / RUC				TEL LAB																																							
COLLECTED BY (Signature) W. J. H. 7/10/90				TEL SW - W. J. H. 7/10/90																																							
FIELD SAMPLE I.D.				TEL POST / RUC																																							
SAMPLE MATRIX			TEL METS																																								
DATE/TIME			TEL CYANIDE																																								
S 300 PB 001 A3			water			10/4 1730			6			X			X			X			X			X																			
S 301 FB 001 A3			WATER			10/4 1730			6			X			X			X			X			X																			
S 302 TB 001 A3			water			10/4 -			1			X																															
REMARKS												RELINQUISHED BY: W. J. H. 7/10/90												DATE 10/4		TIME 1700																	
RECEIVED BY: F. J. H. 7/10/90				DATE 10/4		TIME 1700		RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME		RELINQUISHED BY:				DATE		TIME													
airbill 3507470190																																											
LAB USE ONLY																																											
RECEIVED FOR LABORATORY BY:										DATE		TIME		AIRBILL NO.										OPENED BY:										DATE		TIME		TEMP °C		SEAL #		CONDITION	
REMARKS:																																											

4-88-30337

## Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES								REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker/Roco</i>				<i>TCL VOC</i>	<i>TCL Semi-VOC</i>	<i>TCL PEST</i>	<i>TCL metal: Cu, Pb</i>						
COLLECTED BY (Signature) <i>Willie FLD</i>													
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME											
<i>S30306001A1</i>	<i>Soil</i>	<i>10/5 0900</i>	<i>6</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
<i>S30406002A1</i>	<i>Soil</i>	<i>10/5 0940</i>	<i>5</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
<i>S30507001A1</i>	<i>Soil</i>	<i>10/5 1055</i>	<i>5</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
<i>S30607002A1</i>	<i>Soil</i>	<i>10/5 1120</i>	<i>5</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
<i>S30708001A1</i>	<i>Soil</i>	<i>10/5 1400</i>	<i>5</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
REMARKS											RELINQUISHED BY: <i>Willie FLD</i>	DATE <i>10/5</i>	TIME <i>1930</i>
RECEIVED BY: <i>Willie FLD</i>	DATE <i>10/5</i>	TIME <i>1930</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME		
<i>Air Bill # 3507420 3507470212</i>												LAB USE ONLY	
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION				
REMARKS													

4-88-30337

## Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT			occidental chemical			NO. OF CONTAINERS	TCL VOLTS				TCL METALS				TCL PEST/PCDS				TCL SEMI-VOLATILES				ANALYSES				REMARKS	SAM ID NO. (for lab use only)
SITE			Hooker/Ruco																									
COLLECTED BY (Signature)			K. D. Jones																									
FIELD SAMPLE I.D.			SAMPLE MATRIX				DATE/TIME																					
S30808002A1			Soil			10/05/09 1415			5	2	1	1	1															
S30908002A2			Soil			10/05/09 1415			5	2	1	1	1															
S31009001A1			Soil			10/05/09 1510			5	2	1	1	1															
S31109002A1			Soil			10/05/09 1520			5	2	1	1	1															
S31210001A1			Soil			10/05/09 1615			5	2	1	1	1															
S31310002A1			Soil			10/05/09 1640			5	2	1	1	1															

REMARKS										RELINQUISHED BY: K. D. Jones										DATE 10/5	TIME 1230						
RECEIVED BY: Fed Express					DATE 10/5	TIME 1830	RELINQUISHED BY:					DATE	TIME	RECEIVED BY:					DATE	TIME	RELINQUISHED BY:					DATE	TIME

LAB USE ONLY									
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP°C	SEAL #	CONDITION
REMARKS									

1.88.30337

HKR 001 0372

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hocher/12000</i>				<i>TLC Vol</i>	<i>TLC Semi Vol</i>	<i>TLC Dist</i>	<i>TLC Metals</i>	<i>TLC Synth</i>							
COLLECTED BY (Signature) <i>W. G. 7/15</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
<i>S 3.4 FB 20.42</i>	<i>Water</i>	<i>10/15 1715</i>	<i>6</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>							
<i>S 3.5 FB 20.42</i>	<i>Water</i>	<i>10/15 1720</i>	<i>6</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>							
<i>S 3.10 FB 20.42</i>	<i>Water</i>	<i>10/15 -</i>	<i>1</i>	<i>X</i>											
REMARKS												RELINQUISHED BY: <i>W. G. 7/15</i>	DATE <i>10/15</i>	TIME <i>1730</i>	
RECEIVED BY: <i>Forrest 3/10/15</i>	DATE <i>10/15</i>	TIME <i>1930</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME				

*M2 2.1 4 35.24 7.0.723*

## LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

4-88-30337

## Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical Corp</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker Ruco</i>				TCL VOCs	TCL METALS	TCL PEST/PCBS	TCL SEMI-VOCs	TCL SPANIDE							
COLLECTED BY (Signature) <i>Herde Locis</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
S321FB001A3	water	1230 10/6/89	6	2	1	1	1	1							
S322FB001A3	water	1230 10/6/89	6	2	1	1	1	1							
S323TB001A3	water	10/6/89	1	1											
REMARKS												RELINQUISHED BY: <i>Herde Locis</i>	DATE 10/6	TIME 1530	
RECEIVED BY: <i>Fed Ex</i>	DATE 10/6	TIME 1530	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	
LAB USE ONLY															
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION						
REMARKS															

HKR 001 0374

## Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT Occidental Chem. Corp.			NO. OF CONTAINERS	ANALYSES TCL VOAS TCL METALS TCL PEST / PCBs TCL SEMI-VOAS ANALYST Cyanide										REMARKS	SAM ID NO. (for lab use only)
SITE Hooker/Ruco															
COLLECTED BY (Signature) <i>Red Ex.</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
S31711001A1	Soil	10/6/89 0815	5	2	1	1	1								
S31811002A1	Soil	10/6/89 0830	5	2	1	1	1								
S319HP001A1	Soil	10/6/89 0846	5	2	1	1	1								
S320HP002A1	Soil	10/6/89 0945	5	2	1	1	1								
S32412001A1	Soil	10/6/89 1045	6	2	1	1	1	1							
REMARKS												RELINQUISHED BY: <i>Red Ex.</i>	DATE 10/6	TIME 1500	
RECEIVED BY: <i>Red Ex.</i>	DATE 10/6	TIME 1500	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME				

Air Bill # 3507470374

## LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

4-88-30337

HKR 001 0375



## Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT Occidental Chemical Corp.				NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)																																			
SITE Hooker/RUCO					TEL VOAs																																														
COLLECTED BY (Signature) <i>Leid 2/01/1</i>					TEL PEST/PCBS																																														
FIELD SAMPLE I.D.					TEL Metals																																														
SAMPLE MATRIX				TEL Semi VOAs										Cyanide																																					
DATE/TIME																																																			
S32512002A1				Soil				10/6/89 1105				6				2				1				1				1				1																			
S32612002A2				Soil				10/6/89 1105				6				2				1				1				1				1																			
S32713001A1				Soil				10/6/89 1127				6				3				1				1				1				1																			
S32813002A1				Soil				10/6/89 1200				6				2				1				1				1				1																			
REMARKS												RELINQUISHED BY: <i>Leid 2/01/1</i>												DATE 10/6		TIME 1530																									
RECEIVED BY: <i>Fed Ex</i>				DATE 10/6		TIME 1530		RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME		RELINQUISHED BY:				DATE		TIME																					
AIBILL # 3507470352												LAB USE ONLY																																							
RECEIVED FOR LABORATORY BY:				DATE		TIME		AIRBILL NO.				OPENED BY:				DATE		TIME		TEMP°C		SEAL #		CONDITION																											
REMARKS																																																			

4-88-30337



# Chain of Custody Record

Page 1 of   

PROJECT 1000000000			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)	
SITE Hooker / RUCO				<div style="display: flex; justify-content: space-around;"> <div>TCL Vol</div> <div>TCL Part / 1000</div> <div>TCL Metal</div> <div>TCL Granule</div> <div>TCL Semi Vol / 1000</div> </div>												
COLLECTED BY (Signature) with sub D. P. J. E. J.																
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME														
S 232 SP 021 A1	Soil		1	X	X	X	X	X								
S 270 SP 003 A1	Soil		1	X	X	X	X	X								
S 279 BFB001 A3	water			X	X	X	X	X								
TCL 31WK	water		1	X												
S 230 FB 001 A3	water		1	X	X	X	X	X								
REMARKS													RELINQUISHED BY:		DATE	TIME
RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME		
W. 2. 2. 2.	9/27	1900	W. 7. 2. 2.	1/28	1994	FED. 7. 2. 2. 2.										

LAB USE ONLY									
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

# Chain of Custody Record

Page 1 of     

PROJECT <u>Occidental Chemical Corp</u>			NO. OF CONTAINERS	<div style="display: flex; justify-content: space-between;"> <div> <u>Tec VOC</u>  <u>Tec Semi-volatile</u>  <u>Tec Pesticides</u>  <u>Tec Metals</u>  <u>Tec Cyanide</u> </div> <div>ANALYSES</div> </div>										REMARKS		SAM ID NO. (for lab use only)		
SITE <u>Hooker / River</u>																		
COLLECTED BY (Signature) <u>W. F. H.</u>																		
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME																
<u>S 281 G1 001 A1</u>	<u>Soil</u>	<u>9-29-89</u>	<u>5</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>										
<u>S 282 FB 001 A3</u>	<u>Water</u>	<u>9-29-89</u>	<u>6</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>										
<u>S 283 FB 001 A3</u>	<u>Water</u>	<u>9-29-89</u>	<u>6</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>										
<u>S 284 TB 001 A3</u>	<u>Water</u>	<u>9-29-89</u>	<u>2</u>	<u>X</u>														
REMARKS														RELINQUISHED BY: <u>W. F. H.</u>		DATE <u>9/29</u>	TIME	
RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	
<u>FED EX #1</u>	<u>9/29</u>	<u>1600</u>																
<u>Airbill 3507470411</u>																		
LAB USE ONLY																		
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION									
REMARKS																		

4-88-30337

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <b>Occidental Chem Corp</b>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <b>Hooker Road</b>				<div style="display: flex; justify-content: space-around; text-align: center;"> <div>8240</div> <div>8270</div> <div>8080</div> <div>metal</div> <div>cyanide</div> </div>											
COLLECTED BY (Signature) <b>[Signature]</b>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
S32916001A1	soil	10/9 1020	6	2	1	1	1	1							
S33014001A1	soil	10/9 1000	6	2	1	1	1	1							
S33114002A1	soil	10/9 950	6	2	1	1	1	1							
S33215001A1	soil	10/9 925	6	2	1	1	1	1							
REMARKS												RELINQUISHED BY:		DATE	TIME
												<b>[Signature]</b>		10/9	1830
RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	
<b>Fed Ex</b>	10/9	1830													
<b>Air Bill # 3507476315</b>															
LAB USE ONLY															
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION						
REMARKS															

HKR 001 0379

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chem Corp.</i>				NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)	
SITE <i>Hooker / RUCO</i>					<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">0340 METAL</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CYANIDE</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">0370</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">0080</div> </div>												
COLLECTED BY (Signature) <i>[Signature]</i>																	
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME															
S33315002A	Soil 0950	10/9	6	2	1	1	1	1									
S33416002A	Soil 1030	10/9	6	2	1	1	1	1									
S33517001A	Soil 1055	10/9	6	2	1	1	1	1									
S33617002A	Soil 1130	10/9	6	2	1	1	1	1									
REMARKS														RELINQUISHED BY: <i>[Signature]</i>		DATE 10/9	TIME 1830
RECEIVED BY: <i>Fed Ex</i>	DATE 10/9	TIME 1830	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME						
<i>AIN B.II #3507470326</i>																	
RECEIVED FOR LABORATORY BY:		DATE	TIME	AIRBILL NO.	OPENED BY:			DATE	TIME	TEMP°C	SEAL #	CONDITION					
REMARKS																	

HKR 001 0380

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chem Corp</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)																	
SITE <i>Hooker/RUCO</i>				8240	8270	8080	Cyanide	Metals																								
COLLECTED BY (Signature) <i>Heidi Yocis</i>																																
FIELD SAMPLE I.D.																																
SAMPLE MATRIX			DATE/TIME																													
S33718001A1			Soil			10/9/89 1445			6			2			1			1			1			1								
S34018002A1			Soil			10/9/89 1605			6			2			1			1			1			1								
S33718003A1			Soil			10/9/89 1710			6			2			1			1			1			1								
S33818003A2			Soil			10/9/89 1710			6			2			1			1			1			1								
REMARKS												RELINQUISHED BY: <i>Heidi Yocis</i>												DATE 10/9		TIME 1830						
RECEIVED BY: <i>Fed Ex</i>				DATE 10/9		TIME 1830		RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME		RELINQUISHED BY:				DATE		TIME		
AIB, 11 # 3507470330												LAB USE ONLY																				
RECEIVED FOR LABORATORY BY:				DATE		TIME		AIRBILL NO.				OPENED BY:				DATE		TIME		TEMP °C		SEAL #		CONDITION								
REMARKS																																

HKR 001 0381

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chem Corp.</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker / RUCO</i>				TCL VOCs	TCL METALS	TCL PEST/PCBs	TCL SEMI-VOLATILES	TCL CYANIDES							
COLLECTED BY (Signature) <i>Academy</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
<i>5341FB001A3</i>	<i>water</i>	<i>10/09/89</i>	<i>6</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>							
<i>5342FB001A3</i>	<i>water</i>	<i>10/09/89</i>	<i>6</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>							
<i>5343TB001A3</i>	<i>water</i>	<i>10/09/89</i>	<i>1</i>	<i>1</i>											
REMARKS												RELINQUISHED BY: <i>Academy</i>		DATE <i>10/9</i>	TIME <i>1830</i>
RECEIVED BY: <i>Fed Ex</i>		DATE <i>10/9</i>	TIME <i>1830</i>	RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME	RELINQUISHED BY:		DATE	TIME
<i>Air Bill # 3507470341</i>															
RECEIVED FOR LABORATORY BY:		DATE	TIME	AIRBILL NO.		OPENED BY:				DATE	TIME	TEMP °C	SEAL #	CONDITION	
REMARKS															

HKR 001 0382

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>accidental Chem Corp.</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker/Rico</i>				8240	cyanide	Metal	8270	8280							
COLLECTED BY (Signature) <i>[Signature]</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
<i>S344FB001A3</i>	<i>water</i>	<i>10/10/89 0725</i>	<i>6</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>							
<i>S345FB001A3</i>	<i>water</i>	<i>10/10/89 0725</i>	<i>6</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>							
<i>S346TB001A3</i>	<i>water</i>		<i>1</i>	<i>1</i>											
REMARKS												RELINQUISHED BY: <i>[Signature]</i>		DATE <i>10/10</i>	TIME <i>1930</i>
RECEIVED BY: <i>REC EX</i>	DATE <i>10/10</i>	TIME <i>1930</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	
<i>A.I.B. II 3507470304</i>															
RECEIVED FOR LABORATORY BY:			DATE	TIME	AIRBILL NO.	OPENED BY:			DATE	TIME	TEMP °C	SEAL #	CONDITION		
REMARKS															

TKR 001 0383

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>accidental Chem Corp.</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)	
SITE <i>Hooker RUCO</i>				TEL VEN METAL CYANIDE 8270 80850												
COLLECTED BY (Signature) <i>[Signature]</i>																
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME														
<i>S347H1003A1</i>	<i>Soil</i>	<i>12/10/89 1455</i>	<i>6</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>				
<i>S34819001A1</i>	<i>Soil</i>	<i>10/12/89 0815</i>	<i>6</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>				
<i>S34919002A1</i>	<i>Soil</i>	<i>12/10/89 1105</i>	<i>6</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>				
<i>S35019003A1</i>	<i>Soil</i>	<i>12/10/89 1205</i>	<i>6</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>				
REMARKS													RELINQUISHED BY: <i>[Signature]</i>		DATE <i>12/10/89</i>	TIME <i>1430</i>
RECEIVED BY: <i>Fed Ex</i>	DATE <i>12/10/89</i>	TIME <i>1430</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME		

*AIRBILL # 3507470293*

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									
<div style="border: 1px solid black; padding: 5px; display: inline-block;">             HKR 001 0384           </div>									



# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <b>Occidental Chem Corp.</b>			NO. OF CONTAINERS	ANALYSES TR 6 VOL METAL CYANIDE 8270 8080										REMARKS		SAM ID NO. (for lab use only)																
SITE <b>Hooker RUO</b>																																
COLLECTED BY (Signature) <i>Re. H. Ex</i>																																
FIELD SAMPLE I.D.																																
SAMPLE MATRIX			DATE/TIME																													
S35120001A1			Soil			10/10/89 1435			6			3			1			1			1			1								
S35220002A1			Soil			10/10/89 1521			6			3			1			1			1			1								
S35320003A1			Soil			10/10/89 1714			6			2			1			1			1			1								
REMARKS										RELINQUISHED BY: <i>Re. H. Ex</i>										DATE 10/10/89		TIME 1930										
RECEIVED BY: <i>Re. Ex</i>		DATE 10/10/89		TIME 1930		RELINQUISHED BY:		DATE		TIME		RECEIVED BY:		DATE		TIME		RELINQUISHED BY:		DATE		TIME										

AIRBILL # 350747234

**LAB USE ONLY**

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
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REMARKS
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5880 100 HKR

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	TEL VOA	TEL PEST / PCB	TEL SEMI-VOA / MOCA	TEL NGL / ALS	TEL CYANIDE	ANALYSES	REMARKS	SAM ID NO. (for lab use only)		
SITE <i>Hooker / RUCCO</i>													
COLLECTED BY (Signature) <i>Will FHS</i>													
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME											
S354 FB 001 A3	water	10-11-89	6	X	X	X	X	X					
S355 FB 001 A3	water	10-11-89	6	X	X	X	X	X					
S356 TB 001 A3	water	10-11-89	1	X									
S359 21 001 A1	Soil	10-11-89	6	X	X	X	X	X					
REMARKS										RELINQUISHED BY <i>Will FHS</i>		DATE 10/11	TIME 1320
RECEIVED BY: <i>Will FHS</i>	DATE 10/11	TIME 1320	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME		

Airbill # 5246 900120

**LAB USE ONLY**

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

9860 100 HKR



# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT Occidental Chem Corp.			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE Hooker/Ruco				TEL VOLAS	TEL METAL	TEL SEMI-VOLAS	CYANIDE	TEL PEST/PCBS							
COLLECTED BY (Signature) <i>[Signature]</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
S364FB001A3	water	10/12/89 0730	6	✓	✓	✓	✓	✓							
S363FB001A3	water	10/12/89 0745	6	✓	✓	✓	✓	✓							
S365TB001A3	water		1	✓	✓	✓	✓	✓							
336622003A1	Soil	10/12/89 0915	6	✓	✓	✓	✓	✓							
REMARKS										RELINQUISHED BY: <i>[Signature]</i>		DATE 10/12/89	TIME 1100		
RECEIVED BY: Fed Ex	DATE 10/12/89	TIME 1100	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME				

AIR Bill # 3507470245

## LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS:									

HKR 001 0388

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <b>Occidental Chem Corp.</b>			NO. OF CONTAINERS	ANALYSES <b>TCL VOCs</b> <b>8270 semi-vol</b> <b>metals</b> <b>Cyanide</b> <b>TCL Det/Res</b>										REMARKS	SAM ID NO. (for lab use only)																	
SITE <b>Hooker/Ruco</b>																																
COLLECTED BY (Signature) <i>[Signature]</i>																																
FIELD SAMPLE I.D.																																
SAMPLE MATRIX			DATE/TIME																													
S 36723001A1			Soil			10/12 1350			6			/			/			/			/			/								
S36823002A1			Soil			10/12 1630			6			/			/			/			/			/								
S36823003A1			Soil			10/12 1630			6			/			/			/			/			/								
S36823004A1			Soil			10/12 1645			6			/			/			/			/			/								
S36923 003A1																																
S37023004A1																																
REMARKS												RELINQUISHED BY: <i>[Signature]</i>												DATE		TIME						
RECEIVED BY:				DATE		TIME		RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME		RELINQUISHED BY:				DATE		TIME		
Fed Ex				10/12		1930																										

**Air Bill # 3507470256**

RECEIVED FOR LABORATORY BY:		DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS										

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <u>Occidental Chemical</u>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)	
SITE <u>Hooker/Ruco</u>				<div style="display: flex; justify-content: space-between;"> <div>TCL VOCs</div> <div>TCL Semi-VOCs/MOHA</div> <div>TCL PEST/PCB</div> <div>TCL metals</div> <div>TCL Cyanide</div> </div>												
COLLECTED BY (Signature) <u>W.T. West</u>																
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME														
S371 FB001A3	water	10-16 0845	6	X	X	X	X	X								
S372 FB001A3	water	10-16 0845	6	X	X	X	X	X								
S373 TB001A3	water	10-16 -	1	X												
S374 SA001A1	soil	10-16 1240	6	X	X	X	X	Y								
REMARKS													RELINQUISHED BY: <u>W.746</u>		DATE 10/16	TIME 1430
RECEIVED BY: <u>Fed. Express</u>	DATE 10/16	TIME 1430	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME		
Air Bill # 350740271																
LAB USE ONLY																
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:			DATE	TIME	TEMP °C	SEAL #	CONDITION					
REMARKS																

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>accidental chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker / RUCN</i>				TEL VOA	TEL Semicon / Inorg	TEL PEST / PCB	TEL metal	TEL SYNTH							
COLLECTED BY (Signature) <i>WT. WS</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
S 37557001 A2	Soil	10-16 1240	6	X	X	X	X	X							
S 37624001 A1	Soil	10-16 1440	6	X	X	X	X	X							
S 37724003 A1	Soil	10-16 1455	6	X	X	X	X	X							
REMARKS												RELINQUISHED BY: <i>W. F. Wh</i>	DATE 10/16	TIME	
RECEIVED BY: <i>Federal Express</i>	DATE 10/16	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME				

*AIRBILL # 3507470252*

RECEIVED FOR LABORATORY BY:		DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS										

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)		
SITE <i>HOOKER / RUCCO</i>				<div style="display: flex; justify-content: space-between;"> <div>Tel VOC</div> <div>Tel Semi-VOC</div> <div>Tel Pest</div> <div>Tel Metals</div> <div>Tel Cyanide</div> </div>													
COLLECTED BY (Signature) <i>W. F. H.</i>																	
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME															
S 378 FB001A3	water	10/17 0745	6														
S 379 FB001A3	water	10/17 0750	6														
S 380 TB001A3	water	10/17 —	1														
S 381 CB001A3	water	10/17 0815	6														
REMARKS													RELINQUISHED BY: <i>W. F. H.</i>		DATE 10/17	TIME 1130	
RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
<i>Federal Express</i>	10/17	1130															

*Air Bill # 5246900142*

LAB USE ONLY			
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.
OPENED BY:	DATE	TIME	TEMP °C
SEAL #	CONDITION		
REMARKS			

2600 100 HKR



# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker / RJCO</i>				TEL UGA	TEL SENIOR / MOCA	TEL PEST / PCB	TEL METALS	TEL CHLORIDE							
COLLECTED BY (Signature) <i>Will FHS</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
S38225001A1	SOIL	10-17 0850	6	X	X	X	X	X							
S38325002A1	SOIL	10-17 0940	6	X	X	X	X	X							
S38426001A1	SOIL	10-17 1015	6	X	X	X	X	X							
S38526002A1	SOIL	10-17 1035	6	X	X	X	X	X							
S38627001A1	SOIL	10-17 1120	6	X	X	X	X	X							
S38727002A1	SOIL	10-17 1215	6	X	X	X	X	X							
REMARKS												RELINQUISHED BY: <i>Will FHS</i>	DATE 10-17	TIME 1400	
RECEIVED BY: <i>Federal Express</i>	DATE 10-17	TIME 1400	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	

Airbill # 5246960131

## LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
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REMARKS
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HKR 001 0393

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)			
SITE <i>Hooker / Ruco</i>				<div style="display: flex; justify-content: space-around; text-align: center;"> <div>TCL VOCs</div> <div>TCL Semi-vol/moa</div> <div>TCL Pest / PCB</div> <div>TCL Metals</div> <div>TCL Cyanide</div> </div>														
COLLECTED BY (Signature) <i>Will JHA</i>																		
FIELD SAMPLE I.D.																		
SAMPLE MATRIX			DATE/TIME															
S 388 FB001A3			WATER			10/19 0800			6			X X X X X						
S 389 FB001A3			WATER			10/19 0800			6			X X X X X						
S 390 TB001A3			WATER			10/19 —			1			X						
S 399 IP002A1			SOIL			10/19 1742			6			X X X X X						
REMARKS												RELINQUISHED BY: <i>W. JHA</i>		DATE 10/18	TIME 1845			
RECEIVED BY: <i>Federal Express</i>	DATE 10/18	TIME 1845	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME				

Air Bill # 5246900153

**LAB USE ONLY**

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

HKR 001 0394

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chem Corp.</i>			NO. OF CONTAINERS	ANALYSES <i>TEL VOAS</i> <i>TEL METALS</i> <i>TEL PEST/PCBS</i> <i>TEL SEMI VOAS</i> <i>SEM VOAS</i> <i>CYANIDE</i>										REMARKS		SAM ID NO. (for lab use only)															
SITE <i>Hooker/RUCO</i>																															
COLLECTED BY (Signature) <i>Red Ex</i>																															
FIELD SAMPLE I.D.																															
SAMPLE MATRIX			DATE/TIME																												
<i>S39229002A1</i>			<i>Soil</i>			<i>10/10 1505</i>			<i>6</i>			<i>1</i>			<i>1</i>			<i>1</i>			<i>1</i>										
<i>S39329002A2</i>			<i>Soil</i>			<i>10/10 1505</i>			<i>6</i>			<i>1</i>			<i>1</i>			<i>1</i>			<i>1</i>										
<i>S39429003A1</i>			<i>Soil</i>			<i>10/10 1515</i>			<i>6</i>			<i>1</i>			<i>1</i>			<i>1</i>			<i>1</i>										
<i>S39829001A1</i>			<i>Soil</i>			<i>10/10 1650</i>			<i>6</i>			<i>1</i>			<i>1</i>			<i>1</i>			<i>1</i>										
REMARKS												RELINQUISHED BY:										DATE		TIME							
RECEIVED BY:				DATE		TIME		RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME		RELINQUISHED BY:				DATE		TIME	
<i>Red Ex</i>				<i>10/10</i>		<i>1830</i>										<i>Red Ex</i>				<i>10/10</i>		<i>1830</i>		<i>Red Ex</i>				<i>10/10</i>		<i>1830</i>	

LAB USE ONLY																									
RECEIVED FOR LABORATORY BY:				DATE		TIME		AIRBILL NO.				OPENED BY:				DATE		TIME		TEMP °C		SEAL #		CONDITION	
REMARKS																									

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chem. Corp.</i>			NO. OF CONTAINERS	ANALYSES <i>TCL VOAS TCL METALS TCL PEST/PCB TCL SEMI-VOAS C/EN/CE</i>										REMARKS	SAM ID NO. (for lab use only)	
SITE <i>Hooker RUCO</i>																
COLLECTED BY (Signature) <i>Heidi Yocis</i>																
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME														
<i>S39528001A1</i>	<i>Soil</i>	<i>10/10 0940</i>	<i>6</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>								
<i>S39628002A1</i>	<i>Soil</i>	<i>10/10 1115</i>	<i>6</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>								
<i>S39728003A1</i>	<i>Soil</i>	<i>10/10 1130</i>	<i>6</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>								
<i>S39129001A1</i>	<i>Soil</i>	<i>10/10 1130</i>	<i>6</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>								
REMARKS												RELINQUISHED BY: <i>Heidi Yocis</i>		DATE <i>10/10</i>	TIME <i>1930</i>	
RECEIVED BY: <i>Fed Ex</i>	DATE <i>10/10</i>	TIME <i>1930</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME		

 AIR BILL # *524562821*

## LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

9680 100 RHH

PROJECT Occident Chemical			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE Hooker/Ruco				TCL Ueq	TCL Semi-org/mo-A	TCL Pest/PB3	TCL metals	TCL Cyanide							
COLLECTED BY (Signature) [Signature]															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
S407 30003A1	SOIL	10-19	6	X	X	X	X	X							
S408 31001A1	SOIL	10-19	6	X	X	X	X	X							
S409 31002A1	SOIL	10-19	6	X	X	X	X	X							
S410 31003A1	SOIL	10-19	6	X	X	X	X	X							
REMARKS												RELINQUISHED BY [Signature]	DATE 10/19	TIME 1900	
RECEIVED BY: [Signature]	DATE 10/19	TIME 1900	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	

LAB USE ONLY									
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Deciduated chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)																	
SITE <i>Hooker/RACO</i>				<div style="display: flex; justify-content: space-around;"> <div>TCL UUA</div> <div>TCL Sem. wa / wa</div> <div>TCL Pest / Pest</div> <div>TCL metals</div> <div>TCL cytochrome</div> </div>																												
COLLECTED BY (Signature) <i>W. J. H.</i>																																
FIELD SAMPLE I.D.																																
SAMPLE MATRIX			DATE/TIME																													
S403 TP-03 A1			Soil			10-19 1621			4			X			X			X			X			X								
S404 TP-03 A2			Soil			10-19 1621			6			X			X			X			X			X								
S405 3D 001 A1			Soil			10-19 1450			6			X			X			X			X			X								
S426 3D 002 A1			Soil			10-19 1530			6			X			X			X			X			X								
REMARKS												RELINQUISHED BY: <i>W. J. H.</i>										DATE 10-19		TIME 1400								
RECEIVED BY: <i>F. J. H.</i>		DATE 10/19		TIME 1400		RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME		RELINQUISHED BY:				DATE		TIME				

*10-23-11 # 5246900164*

RECEIVED FOR LABORATORY BY:				DATE		TIME		AIRBILL NO.		OPENED BY:				DATE		TIME		TEMP °C		SEAL #		CONDITION	
REMARKS																							

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	<div style="display: flex; justify-content: space-between;"> <div> <i>TCL VOCs</i>  <i>TCL Semi-VOCs/MOX</i>  <i>TCL PEST/PCB</i>  <i>TCL Metals</i>  <i>TCL Cr/As</i> </div> <div>ANALYSES</div> </div>										REMARKS		SAM ID NO. (for lab use only)	
SITE <i>Hooker / Roco</i>																	
COLLECTED BY (Signature) <i>WFW</i>																	
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME															
<i>S400 FBOO1A2</i>	<i>water</i>	<i>10-19 1315</i>	<i>6</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>									
<i>S401 FBOO1A3</i>	<i>water</i>	<i>10-19 1515</i>	<i>6</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>									
<i>S402 TBOO1A3</i>	<i>water</i>	<i>10-19 1515</i>	<i>1</i>	<i>x</i>													
REMARKS														RELINQUISHED BY: <i>WFW</i>		DATE <i>10/19</i>	TIME <i>1900</i>
RECEIVED BY: <i>Field Spec</i>	DATE <i>10/19</i>	TIME <i>1900</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME

*4103:11 350747 0210*
**LAB USE ONLY**

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
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REMARKS
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6680 100 RKH





# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker / Ruco</i>				TEL UGA	TEL JENI VCA / MCA	TEL PEST / PCB	TEL NATEL	TEL GYALISE							
COLLECTED BY (Signature) <i>W 7 W</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
S411 FB 001A3	water	10-20 1330	6	X	X	X	X	X							
S412 FB 001A3	water	10-20 1330	6	X	X	X	X	X							
S413 TB 001A3	water	10-20 0730	1	X											
S414 32 001A1	soil	10-20 0515	12	X	X	X	X	X							
REMARKS												RELINQUISHED BY: <i>W 7 W</i>	DATE 10/20	TIME 1330	
RECEIVED BY: <i>Federal Express</i>	DATE 10/20	TIME 1330	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	

Air Bill # 52469 00190

**LAB USE ONLY**

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
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REMARKS
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# Chain of Custody Record

Page \_\_\_\_\_ of \_\_\_\_\_

PROJECT <i>Grain-sterilized Chicken</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)	
SITE <i>Hooker / RUCCO</i>				<div style="display: flex; justify-content: space-around; font-size: small;"> <div>TCC VOCs</div> <div>TCC Semi-Vol</div> <div>TCC PEST / PCB</div> <div>TCC METALS</div> <div>TCC CYANIDE</div> </div>												
COLLECTED BY (Signature) <i>Will F...</i>																
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME														
S41532002A1	Soil	10-20 1040	6	X	X	X	X	X								
S41632002AZ	Soil	10-20 1040	6	X	X	X	X	X								
S41732003A1	Soil	10-20 1110	6	X	X	X	X	X								
REMARKS													RELINQUISHED BY: <i>Will F...</i>		DATE 10/20	TIME 1330
RECEIVED BY: <i>Federal Express</i>	DATE 10/20	TIME 1330	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME		

AIRBILL # 5345678196

**LAB USE ONLY**

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									



# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES <i>TCL UOA</i> <i>TCL Semi-vol/moCA</i> <i>RL Pest/PCB</i> <i>TCL metals</i> <i>TCL cyanide</i>										REMARKS		SAM ID NO. (for lab use only)									
SITE <i>Hooker/Ruco</i>																									
COLLECTED BY (Signature) <i>WFW</i>																									
FIELD SAMPLE I.D.																									
SAMPLE MATRIX			DATE/TIME																						
542334001A1			Soil			10-23 1010			6																
542334002A1			Soil			10-23 1023			6																
542435001A1			Soil			10-23 1414			6																
542535002A1			Soil			10-23 1418			6																
542636001A1			Soil			10-23 1505			6																
REMARKS												RELINQUISHED BY: <i>WFW</i>				DATE 10-23		TIME 1840							
RECEIVED BY: <i>Fedor</i>		DATE 10-23		TIME 1840		RELINQUISHED BY:		DATE		TIME		RECEIVED BY:		DATE		TIME		RELINQUISHED BY:		DATE		TIME			

 Air Bill # *5245678163*
**LAB USE ONLY**

RECEIVED FOR LABORATORY BY:		DATE		TIME		AIRBILL NO.		OPENED BY:		DATE		TIME		TEMP °C		SEAL #		CONDITION	
REMARKS																			

HKR 001 0404

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>occidental chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)		
SITE <i>Hooker/Ruco</i>				<div style="display: flex; justify-content: space-around;"> <div>TEL VOA</div> <div>TEL Semi VOA / MOCA</div> <div>TEL PEST / PCB</div> <div>TEL metals</div> <div>TEL CYALIDE</div> </div>													
COLLECTED BY (Signature) <i>W. F. W.</i>																	
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME															
5427 36 002A1	Soil	10-23 1525	6	X	X	X	X	X									
5428 37 001A1	Soil	10-23 1550	6	X	X	X	X	X									
5429 37 002A1	Soil	10-23 1630	6	X	X	X	X	X									
5430 38 001A1	Soil	10-23 1735	6	X	X	X	X	X									
5431 38 002A1	Soil	10-23 1750	6	X	X	X	X	X									
REMARKS													RELINQUISHED BY: <i>W. F. W.</i>		DATE 10-23	TIME 1850	
RECEIVED BY: <i>Federal Express</i>	DATE 10-23	TIME 1850	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME

Air Bill # 5245678174

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

5040 100 HKR

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <b>Ocidental Chem Corp</b>			NO. OF CONTAINERS	<div style="display: flex; justify-content: space-around; text-align: center;"> <div>TCL Vol 1</div> <div>TCL Semi-Volat</div> <div>TCL Metals</div> <div>TCL Cyanide</div> <div>TCL Pesticides</div> </div>										REMARKS		SAM ID NO. (for lab use only)					
SITE <b>Hooker / RUO</b>																					
COLLECTED BY (Signature) <i>[Signature]</i>																					
FIELD SAMPLE I.D.																					
SAMPLE MATRIX			DATE/TIME																		
5432 TB001A3			water			10/24 0815			6	X	X	X	X	X							
5433 TB001A3			water			10/24 0830			6	X	X	X	X	X							
5434 TB001A3			water			10/24			1	X	X	X	X	X							
REMARKS										RELINQUISHED BY: <i>[Signature]</i>										DATE	TIME
RECEIVED BY:		DATE	TIME	RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME	RELINQUISHED BY:		DATE	TIME						
<i>[Signature]</i>		10/24	1830																		
LAB USE ONLY																					
RECEIVED FOR LABORATORY BY:				DATE	TIME	AIRBILL NO.				OPENED BY:				DATE	TIME	TEMP °C	SEAL #	CONDITION			
REMARKS																					

HKR 001 0406

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <b>Occidental Chem Corp</b>			NO. OF CONTAINERS	<div style="display: flex; justify-content: space-between;"> <div> <b>TCL WTS</b>  <b>TCL Metals</b>  <b>TCL Cyanide</b>  <b>TCL Semi-Conductors</b>  <b>TCL PCBs</b> </div> <div>ANALYSES</div> </div>										REMARKS		SAM ID NO. (for lab use only)	
SITE <b>Hooker RUCC</b>																	
COLLECTED BY (Signature) <i>[Signature]</i>																	
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME															
5435 3900/A1	Soil	10/24	6	X	X	X	X	X									
5436 3900/A2	Soil	10/24	6	X	X	X	X	X									
5437 3900/A3	Soil	10/24	6	X	X	X	X	X									
5438 4000/A1	Soil	10/24	6	X	X	X	X	X									
5439 4000/A2	Soil	10/24	6	X	X	X	X	X									
REMARKS													RELINQUISHED BY: <i>[Signature]</i>		DATE 10/24	TIME 1530	
RECEIVED BY: <i>[Signature]</i>	DATE 10/24	TIME 1830	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME

**LAB USE ONLY**

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

 0407  
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# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <b>Occidental Chem Corp</b>			NO. OF CONTAINERS	TEL. Volts	TEL. Metals	TEL. C/Am/Cl	TEL. Semi-Volts	TEL. 2-Hr/Sec	TEL. Post-Run	ANALYSES	REMARKS	SAM ID NO. (for lab use only)	
SITE <b>Hooker/RUCO</b>													
COLLECTED BY (Signature) <i>[Signature]</i>													
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME											
544033001A1	Soil	10/24	6	X	X	X	X	X					
544133002A1	Soil	10/24	6	X	X	X	X	X					
544233003A1	Soil	10/24	6	X	X	X	X	X					
544301001A1	Soil	10/24	6	X	X	X	X	X					
5444Q1002A1	Soil	10/24	6	X	X	X	X	X					
REMARKS											RELINQUISHED BY: <i>[Signature]</i>	DATE 10/24	TIME 1130
RECEIVED BY: <i>[Signature]</i>	DATE 10/24	TIME 1130	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME		

RECEIVED FOR LABORATORY BY:			DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP°C	SEAL #	CONDITION
REMARKS											





# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <b>Occidental Chem. Corp.</b>			NO. OF CONTAINERS	<div style="display: flex; justify-content: space-between;"> <div>TEL VOAS</div> <div>TEL METALS</div> <div>TEL CHLORIDE</div> <div>TEL PESTICIDES</div> <div>TEL SEMI-VOLEATILES</div> <div>ANALYSES</div> </div>										REMARKS		SAM ID NO. (for lab use only)			
SITE <b>Hooker/Ruco</b>																			
COLLECTED BY (Signature) <i>[Signature]</i>																			
FIELD SAMPLE I.D.																			
SAMPLE MATRIX			DATE/TIME																
5445FB001A3			water			10/25 0745			6	X	X	X	X	X					
3446FB001A3			water			10/25 0750			6	X	X	X	X	X					
5447TB001A3			water			10/25			1	X									
REMARKS										RELINQUISHED BY: <i>[Signature]</i>					DATE	TIME			
RECEIVED BY: <b>Red Ex</b>		DATE <b>10/25</b>	TIME <b>1800</b>	RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME	RELINQUISHED BY:		DATE	TIME				

**AR B.I.# 5245678093**
**LAB USE ONLY**

RECEIVED FOR LABORATORY BY:		DATE	TIME	AIRBILL NO.	OPENED BY:		DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS											

HKR 001 0410

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Accidental Chem Cont</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker / RUCC</i>				TEL Vols	TEL Metals	TEL Cyanide	TEL PCBs / PAHs	TEL Semi-Volat	TEL HAPs	TEL Other					
COLLECTED BY (Signature) <i>[Signature]</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
S457JP001A1	Soil	10/26 1055	6	/	/	/	/	/							
S458JP002A1	Soil	10/26 1155	6	/	/	/	/	/							
S459JP003A1	Soil	10/26 1625	6	/	/	/	/	/							
S460JP004A1	Soil	10/26	6	/	/	/	/	/							
S461JP005A1	Soil	10/26	6	/	/	/	/	/					Hold until phone call		
REMARKS												RELINQUISHED BY: <i>[Signature]</i>		DATE	TIME
RECEIVED BY: <i>FEL EX</i>		DATE	TIME	RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME	RELINQUISHED BY:		DATE	TIME
10/26/1930														10/26/1930	

LAB USE ONLY									
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									





# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <b>Occidental Chemical</b>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <b>Hooker/Ruco</b>				<div style="display: flex; justify-content: space-between;"> <div>Tel Vol</div> <div>Tel Metals</div> <div>Tel Spade</div> <div>Tel Swivel/No</div> <div>Tel Pst/RB</div> </div>											
COLLECTED BY (Signature) <b>W. FUS</b>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
5462 FB001A3	water	10-30-89 410	6	+	+	+	+	+							
5463 FB001A3	water	10-30-89 0720	6	+	+	+	+	+							
5464 TB001A3	water	10-30-89	1	X											
REMARKS												RELINQUISHED BY: <b>W. FUS</b>		DATE 10/30	TIME 1900
RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	
F20 <b>Exp/uss</b>	10/30	1900													

**LAB USE ONLY**

412711 ± 524 51.7 7905

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS:									

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)	
SITE <i>Hooker / Roco</i>																
COLLECTED BY: (Signature) <i>W. F. H.</i>																
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME		TCL VOA	TCL Semivolatile	TCL PEST/PCB	TCL Metals	TCL Cyanide								
<i>S4165 P1001 A3</i>	<i>Soil</i>	<i>10-30-89 1142</i>	<i>6</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>								
<i>S4166 P1002 A3</i>	<i>Soil</i>	<i>10-30 1350</i>	<i>6</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>								
<i>S4167 P1003 A1</i>	<i>Soil</i>	<i>10-30 1535</i>	<i>6</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>								
<i>S4168 P1004 A1</i>	<i>Soil</i>	<i>10-30 1545</i>	<i>6</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>								
REMARKS													RELINQUISHED BY: <i>W. F. H.</i>		DATE <i>10/30</i>	TIME <i>1705</i>
RECEIVED BY: <i>F. J. O. Express</i>	DATE <i>10/30</i>	TIME <i>1715</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME		
LAB USE ONLY																
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:				DATE	TIME	TEMP °C	SEAL #	CONDITION				
REMARKS																

HKR 001 0415

4-88-30337

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical Corp</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)	
SITE <i>Hooker / Roco</i>				<div style="display: flex; justify-content: space-around;"> <div>TEL VOA</div> <div>TEL Semi-ua / meta</div> <div>TEL Pest / PCB</div> <div>TEL Metals</div> <div>TEL Cyanide</div> </div>												
COLLECTED BY (Signature) <i>W. F. H.</i>																
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME														
5469FB001A3	WATER	11/1 0745	6	X	X	X	X	X								
5470FB001A3	WATER	11/1 0750	6	X	X	X	X	X								
5471TB001A3	water	11/1 -	1													
REMARKS													RELINQUISHED BY: <i>W. F. H.</i>		DATE 11/1	TIME 1900
RECEIVED BY: <i>Felton St. P. S.</i>	DATE 11/1	TIME 1900	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME		

*42311 ± 5245677953*

LAB USE ONLY									
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

HKR 001 0416



# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical Corp</i>			NO. OF CONTAINERS	ANALYSES <i>TEL VOAT</i> <i>TEL SWI VOAT/MOAT</i> <i>TEL PEST/PCB</i> <i>TEL METALS</i> <i>TEL CYANIDE</i>										REMARKS		SAM ID NO. (for lab use only)	
SITE <i>Hooker / RUO</i>																	
COLLECTED BY (Signature) <i>W. J. H.</i>																	
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME															
547202001A1	Soil	11/1 0925	6	X	X	X	X	X									
547302002A1	Soil	11/1 1025	6	X	X	X	X	X									
547402002A2	Soil	11/1 1025	6	X	X	X	X	X									
547502003A1	Soil	11/1 1415	6	X	X	X	X	X									
REMARKS													RELINQUISHED BY: <i>W. J. H.</i>		DATE 11/1	TIME 1900	
RECEIVED BY: <i>F. J. H.</i>	DATE 11/1	TIME 1900	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
A: 2011 # 5245677964																	
LAB USE ONLY																	
RECEIVED FOR LABORATORY BY:		DATE	TIME	AIRBILL NO.		OPENED BY:			DATE	TIME	TEMP °C	SEAL #	CONDITION				
REMARKS																	

HKR 001 0417

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooler / RU-2</i>				<div style="display: flex; justify-content: space-around;"> <div>TCL VOA</div> <div>TCL Semi-Vol / MW 9</div> <div>TCL METALS</div> <div>TCL PEST / PCB</div> <div>TCL SURF</div> </div>											
COLLECTED BY (Signature) <i>W. J. W.</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
S477 F3 001 A3	WATER	11/2 1015	6	X	X	X	X	X							
S477 F3 001 A3	WATER	11/2 1025	6	X	X	X	X	X							
S477 F3 001 A3	WATER	11/2 -	1	X											
REMARKS													RELINQUISHED BY: <i>W. J. W.</i>	DATE 11/2	TIME 1920
RECEIVED BY: <i>F. J. W.</i>	DATE 11/2	TIME 1300	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	

AIRBILL # 4649 259322

**LAB USE ONLY**

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

HKR 001 0418

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>HOOKE ROAD</i>				<div style="display: flex; justify-content: space-around; text-align: center;"> <div>TCL VOC</div> <div>TCL SVOC / PAH</div> <div>TCL PEST / PCB</div> <div>TCL METALS</div> <div>TCL CYANIDE</div> </div>											
COLLECTED BY (Signature) <i>W FLY</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
<i>5471 P1 001 A1</i>	<i>soil</i>	<i>11/2 1035</i>	<i>6</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>							
<i>5480 P1 002 A1</i>	<i>soil</i>	<i>11/2 1035</i>	<i>6</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>							
REMARKS												RELINQUISHED BY: <i>W FLY</i>		DATE <i>11/2</i>	TIME <i>1310</i>
RECEIVED BY: <i>Express</i>	DATE <i>12/5</i>	TIME <i>11/2</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	

*Airbill # 464929333*
**LAB USE ONLY**

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS:									

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Accidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)	
SITE <i>Hooker/RUCO</i>				<div style="display: flex; justify-content: space-around; text-align: center;"> <div>TCL VOCs</div> <div>TCL Semivolatile/Metals</div> <div>TCL PEST/PCBs</div> <div>TCL Metals</div> <div>TCL Cyanide</div> </div>												
COLLECTED BY (Signature) <i>W. F. W.</i>																
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME														
S491 F3001A3	water	11-6 0815	6													
S492 F3001A3	water	11-6 0820	6													
S493 T3001A3	water	11-6 -	1													
REMARKS													RELINQUISHED BY: <i>W. F. W.</i>		DATE 11-6	TIME 1815
RECEIVED BY: <i>Federal Express</i>	DATE 11-6	TIME 1815	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME		

Air Bill # 524510 72082

**LAB USE ONLY**

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

HKR 001 0420

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker/RUGO</i>				<div style="display: flex; justify-content: space-around; text-align: center;"> <div>TCL VOA</div> <div>TCL Semi VOA / MOCA</div> <div>TCL PEST / PCB</div> <div>TCL Metals</div> <div>TCL Cyanide</div> </div>											
COLLECTED BY (Signature) <i>WTW</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
S484 N1001A1	SOIL	11/6 0908	6	X	X	X	X	X							
S485 N1002A1	SOIL	11/6 1011	6	X	X	X	X	X							
S486 N1003A1	SOIL	11/6 1205	6	X	X	X	X	X							
S487 KP001A1	SOIL	11/6 1158	6	X	X	X	X	X							
S488 KP002A1	SOIL	11/6 1419	6	X	X	X	X	X							
S489 KP003A1	SOIL	11/6 1705	6	X	X	X	X	X							
REMARKS												RELINQUISHED BY: <i>W-TW</i>		DATE 11/6	TIME 1800
RECEIVED BY: <i>Fairal Express</i>	DATE 11/6	TIME 1819	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME				
A/c Bill # 52451278071 <div style="text-align: center;">LAB USE ONLY</div>															
RECEIVED FOR LABORATORY BY:		DATE	TIME	AIRBILL NO.	OPENED BY:			DATE	TIME	TEMP C	SEAL #	CONDITION			
REMARKS															



# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT Occidental Chemical			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE Hooker/RUCO				TEL VOA	TEL SV. VOA / MEA	TEL PEST / PCB	TEL METALS	TEL CYANIDE							
COLLECTED BY (Signature) W. F. W.															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
5493 R-1-001A1	SOIL	11-7 1103	6	X	X	X	X	X							
5494 R-1-001A2	SOIL	11-7 1103	6	X	X	X	X	X							
5495 R-1-002A1	SOIL	11-7 1142	6	X	X	X	X	X							
5496 R-1-003A1	SOIL	11-7 1354	6	X	X	X	X	X							
REMARKS												RELINQUISHED BY: W. F. W.	DATE 11-7	TIME 1820	
RECEIVED BY: FEDERAL EXPRESS	DATE 11-7	TIME 1820	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	

AIRTEL # 4649259370

## LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

HKR 001 0423

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <b>Occidental Chemical Corp.</b>			NO. OF CONTAINERS	ANALYSES													
SITE <b>Hooker / RUCCO</b>				TEL VOLAS TEL SEMI VOLAS TEL METALS TEL CYANIDE TEL TEST / PLS													
COLLECTED BY (Signature) <b>K. Yous</b>																	
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME												REMARKS	SAM ID NO. (for lab use only)		
5497FB001A3	water	11/08/89	6	/	/	/	/	/	/	/	/	/	/				
5498FB001A3	water	11/08/89	6	/	/	/	/	/	/	/	/	/	/				
5499TB001A3	water	11/08/89	1	/	/	/	/	/	/	/	/	/	/				
REMARKS													RELINQUISHED BY: <b>K. Yous</b>		DATE <b>11/08/89</b>	TIME <b>1930</b>	
RECEIVED BY: <b>Fed Ex</b>	DATE <b>11/08/89</b>	TIME <b>1730</b>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
<b>Air Bill # 4649259506</b>																	
LAB USE ONLY																	
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION								
REMARKS																	





# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <b>Accidental Chem. Corp</b>			NO. OF CONTAINERS	ANALYSES <i>TEL Vols</i> <i>TEL Semis</i> <i>TEL Metals</i> <i>TEL Stencils</i> <i>TEL PIST/RES</i>										REMARKS	SAM ID NO. (for lab use only)
SITE <b>Hooker Ruco</b>															
COLLECTED BY (Signature) <i>[Signature]</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
<b>S502FB001A3</b>	<b>water</b>	<b>11/13/89 0745</b>	<b>6</b>												
<b>S503FB001A3</b>	<b>water</b>	<b>11/14/89 0750</b>	<b>6</b>												
<b>S504TB001A3</b>	<b>water</b>	<b>11/13/89 -</b>	<b>1</b>												
REMARKS												RELINQUISHED BY: <i>[Signature]</i>		DATE <b>11/13</b>	TIME <b>1930</b>
RECEIVED BY: <b>Fed Ex</b>	DATE <b>11/13/89</b>	TIME <b>1934</b>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	
<b>Fed Ex Air Bill # 524567806</b>															
LAB USE ONLY															
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION						
REMARKS															

HKR 001 0426

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical Corp</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker / RUCC</i>				<div style="display: flex; justify-content: space-between;"> <div>TEL VOA</div> <div>TEL Semi VOA / MOA</div> <div>TEL Asst / Res</div> <div>TEL metals</div> <div>TEL cyanide</div> </div>											
COLLECTED BY (Signature) <i>WTW</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
<i>5505WB001A3</i>	<i>water</i>	<i>11-13 1630</i>	<i>6</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>							
REMARKS													RELINQUISHED BY: <i>W. F. H.</i>	DATE <i>11/13</i>	TIME <i>1930</i>
RECEIVED BY: <i>F. J. K.</i>	DATE <i>11-13</i>	TIME <i>1930</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	

*4:02 3:11 524567 8056*

RECEIVED FOR LABORATORY BY:		DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS										

HKR 001 0427



# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Hooker / RUCC</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)		
SITE <i>Occidental Chemical Corp</i>				<div style="writing-mode: vertical-rl; transform: rotate(180deg);">Tel. No.</div>													
COLLECTED BY (Signature) <i>W. J. S.</i>																	
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME															
3509 FB001A3	Water	11-17 1305	2	+													
3510 FB001A3	Water	11-17 -	1	+													
3511 42001A1	Soil	11-17 1012	2	+													
REMARKS													RELINQUISHED BY: <i>W. J. S.</i>		DATE 11/17	TIME 1330	
RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
<i>Fedex Express</i>	11/17	1330															

*Airbill # 4649259381*

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									
<div style="background-color: #cccccc; height: 50px; width: 100%;"></div>									

HKR 001 0429

PROJECT Occidental Chemical Corporation				NO. OF CONTAINERS	ANALYSES								REMARKS	SAM ID NO. (for lab use only)
SITE Hooker/Ruco														
COLLECTED BY (Signature) [Signature]														
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME												
551413001A1	Soil	11/20 1416	2	/										
5512FB001A3	water	11/20 1620	2	/										
5513TB001A3	water	11/20 -	1	/										
REMARKS												RELINQUISHED BY: [Signature]	DATE 11/20	TIME 1930
RECEIVED BY: Fed Ex	DATE 11/20	TIME 1930	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME			
A-1-B-11 # 46519259462														
LAB USE ONLY														
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:				DATE	TIME	TEMP °C	SEAL #	CONDITION		
REMARKS														

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical Corp</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker / RUCC</i>				TEL UCC	TEL SMI/ISS/MOCA	TEL METALS	TEL CYANIDE	TEL PEST/PCB's							
COLLECTED BY (Signature) <i>W. J. W.</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
SS15 FB001A3	water	11-21 0900	6	X	X	X	X	X							
SS16 FB 001A3	water	11-21 0905	6	X	X	X	X	X							
SS17 TB 001A3	water	11-21 -	1	X											
REMARKS												RELINQUISHED BY: <i>W. J. W.</i>		DATE 11-21	TIME 1915
RECEIVED BY: <i>F. J. W.</i>	DATE 11-21	TIME 1915	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	
AIRBILL # 4649259392															
LAB USE ONLY															
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION						
REMARKS															
<div style="text-align: right;">HKR 001 0431</div>															

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical Corp</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker / Ruco</i>				TEL UGA	TEL Sin UGA / MOCA	TEL metals	TEL cyanide	TEL PEST / PCB							
COLLECTED BY (Signature) <i>W. J. [Signature]</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
551844 001A1	Soil	11-21	2	X											
551971 001A1	Soil	11-21	4	X	X	X	X	X							
552071 002A1	Soil	11-21	4	X	X	X	X	X							
552171 003A1	Soil	11-21	6	X	X	X	X	X							
REMARKS												RELINQUISHED BY: <i>W. J. [Signature]</i>	DATE 11/21	TIME 1515	
RECEIVED BY: <i>F. [Signature]</i>	DATE 11-21	TIME 1915	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	

AIRBILL # 4649259403

**LAB USE ONLY**

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

HKR 001 0432



# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Accidental Chem. Spill</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)	
SITE <i>Hooker / Ruco</i>				<div style="writing-mode: vertical-rl; transform: rotate(180deg);">TCL VOA</div>												
COLLECTED BY (Signature) <i>W. F. [Signature]</i>																
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME														
5522FB001A3	water	11-22 1320	2	X												
5523TB001A2	water	11-22 1320	1	X												
552445001A1	Soil	11-22 1053	2	X												
REMARKS												RELINQUISHED BY: <i>W. F. [Signature]</i>		DATE 11-22	TIME 1400	
RECEIVED BY: <i>[Signature]</i>	DATE 11-22	TIME 1400	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME		
AIRBILL # <i>9649259440</i>																
RECEIVED FOR LABORATORY BY:		DATE	TIME	AIRBILL NO.	OPENED BY:			DATE	TIME	TEMP °C	SEAL #	CONDITION				
REMARKS																

HKR 001 0433





# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <b>Occidental Chemical Corp.</b>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)	
SITE <b>Hooker Ruco</b>				TEL 16AS	TEL Semi-Volatiles & Aromatics	TEL METALS	TEL Cyanide	TEL PEST RES.	TPH <sub>c</sub>	Edtox Metals	Flash Point	Compositivity	Reactivity			
COLLECTED BY (Signature) <i>[Signature]</i>																
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME														
5531PC001A1	Soil	11/30 0940	9	/	/	/	/	/	/	/	/	/	/	/	/	/
5530PC001A1	Soil	11/30 0920	7	/	/	/	/	/	/	/	/	/	/	/	/	/
REMARKS													RELINQUISHED BY: <i>[Signature]</i>	DATE 11/30	TIME 1930	
RECEIVED BY: <b>Fed EX</b>	DATE 11/30	TIME 1930	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME		

**Air Bill # 5245677975**

RECEIVED FOR LABORATORY BY:		DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS										

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical Corp</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hoolwe / RUED</i>				TEL VOA	TEL Sem. Vol. / MORG	TEL RESV / PCB	TEL CYA. / dr	TEL meta / S							
COLLECTED BY (Signature) <i>W. FUS</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
5538 SP001A1	Soil	12/4	6	X	X	X	X	X							
5539 SP001A2	Soil	12/4	6	X	X	X	X	X							
5540 SP002A1	Soil	12/4	6	X	X	X	X	X							
REMARKS												RELINQUISHED BY: <i>W. FUS</i>	DATE 12/4	TIME 1800	
RECEIVED BY: <i>Federal Express</i>	DATE 12/4	TIME 1800	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME				

*Airbill # 5245675293*

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

HKR 001 0437

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical Corp</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hoboken/RUCO</i>				<div style="display: flex; justify-content: space-around; text-align: center;"> <div><i>TEL VOC</i></div> <div><i>TEL Semi-VOC/PAH</i></div> <div><i>TEL Metals</i></div> <div><i>TEL CHLORIDE</i></div> <div><i>TEL PEST/PCB</i></div> </div>											
COLLECTED BY (Signature) <i>W7WS</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
<i>5535FB001A3</i>	<i>water</i>	<i>12/4 1005</i>	<i>6</i>	<i>+</i>	<i>X</i>	<i>+</i>	<i>+</i>	<i>+</i>							
<i>5536FB001A3</i>	<i>water</i>	<i>12/4 1010</i>	<i>6</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>							
<i>5537TB001A3</i>	<i>water</i>	<i>12/4 -</i>	<i>1</i>	<i>X</i>											
REMARKS												RELINQUISHED BY: <i>W7WS</i>	DATE <i>12/4</i>	TIME <i>1800</i>	
RECEIVED BY: <i>F20922 express</i>	DATE <i>12/4</i>	TIME <i>1800</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME				

*Air Bill # 5245675282*

LAB USE ONLY			
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.
OPENED BY:	DATE	TIME	TEMP °C
SEAL #	CONDITION	REMARKS	

8870 100 RHR

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <b>OCCIDENTAL Chemical Corp.</b>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)		
SITE <b>HOOKER / RUO</b>				TEL UGA													
COLLECTED BY (Signature) <b>W FUS</b>				TEL EMVIA Inoc													
				TEL PEST / PCB													
			TEL METALS														
			TEL CYANIDE														
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME															
<b>5544SP003A1</b>	<b>SOIL</b>	<b>12-5</b>	<b>6</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>									
REMARKS													RELINQUISHED BY: <b>W FUS</b>		DATE <b>12-5</b>	TIME	
RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
<b>Fidman Express</b>	<b>12/5</b>																

**LAB USE ONLY**

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

HKR 001 0439



# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Oxidized Chemical Cup</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker / RUCC</i>				<i>TEL lead</i>	<i>TEL Semi-lead/metal</i>	<i>TEL PbST/PbZ</i>	<i>TEL metals</i>	<i>TEL cyanide</i>							
COLLECTED BY (Signature) <i>W. J. [Signature]</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
<i>5541 FB001A3</i>	<i>water</i>	<i>12-5 0830</i>	<i>6</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>							
<i>5542 FB001A3</i>	<i>water</i>	<i>12-5 0835</i>	<i>6</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>Y</i>							
<i>5543 TB001A3</i>	<i>water</i>	<i>12-5 —</i>	<i>1</i>	<i>K</i>											
REMARKS												RELINQUISHED BY: <i>W. J. [Signature]</i>	DATE <i>12-5</i>	TIME	
RECEIVED BY: <i>Forensic EXP-55</i>	DATE <i>12-5</i>	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	

*12-5-11 # 5245678012*

LAB USE ONLY			
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.
OPENED BY:	DATE	TIME	TEMP °C
SEAL #	CONDITION		
REMARKS			

0440 001 HKR











# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <b>Occidental Chem Corp.</b>			NO. OF CONTAINERS	ANALYSES								REMARKS	SAM ID NO. (for lab use only)
SITE <b>Hooker Refco</b>				<div style="display: flex; justify-content: space-around; text-align: center;"> <div>8240 TIC</div> <div>Metall</div> <div>Cyanide</div> <div>8080</div> <div>8270</div> <div>MOA A</div> </div>									
COLLECTED BY (Signature) <i>[Signature]</i>													
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME											
<b>5530 D100/A3</b>	<b>water</b>	<b>1-5-90 18:09</b>		X	X	X	X	X	X				
REMARKS											RELINQUISHED BY: <i>[Signature]</i>	DATE <b>1-5-90</b>	TIME <b>1930</b>
RECEIVED BY: <i>[Signature]</i>	DATE <b>1-5-90</b>	TIME <b>1800</b>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME		
LAB USE ONLY													
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION	REMARKS			





# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker Ruco</i>				<i>8240 TIC</i> <i>8270</i> <i>8080</i> <i>Metals, Haze</i> <i>CN</i>											
COLLECTED BY (Signature) <i>[Signature]</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
<i>5554 C2001 A3</i>	<i>water</i>	<i>1/16</i>	<i>9</i>	<i>X</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>		
REMARKS													RELINQUISHED BY: <i>[Signature]</i>	DATE <i>1-16</i>	TIME <i>1930</i>
RECEIVED BY: <i>Fed Ex</i>	DATE <i>1-16</i>	TIME <i>1930</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	
<i>Air Bill #4599405101</i>															
LAB USE ONLY															
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:				DATE	TIME	TEMP °C	SEAL #	CONDITION			
REMARKS															

HKR 001 0447



# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chem.</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker/RUCO</i>				<div style="display: flex; justify-content: space-around; text-align: center;"> <div>8270</div> <div>8080</div> <div>METALS</div> <div>CN</div> <div>8240+TR</div> </div>											
COLLECTED BY (Signature) <i>H. J. Ellis</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
<i>5557E2001A3</i>	<i>water</i>	<i>1-16-90</i>	<i>9</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>							
REMARKS												RELINQUISHED BY: <i>H. J. Ellis</i>		DATE <i>1-16</i>	TIME <i>1930</i>
RECEIVED BY: <i>Red Ex.</i>	DATE <i>1-16</i>	TIME <i>1930</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	
<i>A.R. B.11 #4599405053</i>															
LAB USE ONLY															
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:			DATE	TIME	TEMP °C	SEAL #	CONDITION				
REMARKS															

HKR 001 0448



# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)		
SITE <i>Hooker/RUCO</i>				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8240, TIC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8270</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8080</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CN</div> </div>													
COLLECTED BY (Signature) <i>[Signature]</i>																	
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME															
<i>5552FB001A3</i>	<i>water</i>	<i>1/16-90</i>	<i>9</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>									
<i>5551TB001A3</i>	<i>water</i>	<i>1/16</i>	<i>1</i>	<i>X</i>													
REMARKS													RELINQUISHED BY: <i>[Signature]</i>		DATE <i>1-16</i>	TIME <i>1930</i>	
RECEIVED BY: <i>[Signature]</i>	DATE <i>1-16</i>	TIME <i>1930</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME

*Air Bill # 4599405064*

RECEIVED FOR LABORATORY BY:		DATE	TIME	AIRBILL NO.	OPENED BY:		DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS											

HKR 001 0449

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>accidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker / RUco</i>				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8240, TIC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">80270</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8080</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">C7H14O6</div> </div>											
COLLECTED BY (Signature) <i>[Signature]</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
<i>5556 E1001 A3</i>	<i>water</i>	<i>1/16</i>	<i>9</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>							
REMARKS												RELINQUISHED BY: <i>[Signature]</i>		DATE <i>1-16</i>	TIME <i>1530</i>
RECEIVED BY: <i>Fed Ex</i>	DATE <i>1-16</i>	TIME <i>1530</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	

*Air Bill # 4599 405086*

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

HKR 001 0450

## Chain of Custody Record

Page \_\_\_\_\_ of \_\_\_\_\_

[illegible]

AR B.11 # 4599405090

**LAB USE ONLY**

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

HKR 001 0451

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker/RUCO</i>				8240, TIL	8270, MOC9	8080	metals	CN							
COLLECTED BY (Signature) <i>W. J. S.</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
<i>562I1001A4</i>	<i>Water</i>	<i>1/17/90</i>	<i>9</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>							
REMARKS												RELINQUISHED BY: <i>W. J. S.</i>		DATE <i>1/17</i>	TIME <i>1930</i>
RECEIVED BY: <i>Fed Ex</i>	DATE <i>1/17</i>	TIME <i>1930</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	

*AIRBILL # 4599405489*
**LAB USE ONLY**

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									
<div style="border: 1px solid black; padding: 5px; width: fit-content;">           HKR 001 0452         </div>									

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)	
SITE <i>Hooker/Ruco</i>				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8240, TIC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8270, MOC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8080</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CN</div> </div>												
COLLECTED BY (Signature) <i>W. F. [Signature]</i>																
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME														
SS58 TB001A3	water	1/17/90	1	X												
SS59 FB001A3	water	1/17/90	9	X	X	X	X	X								
REMARKS													RELINQUISHED BY: <i>W. F. [Signature]</i>		DATE 1/17	TIME 1930
RECEIVED BY: <i>Fedex Express</i>	DATE 1/17	TIME 1930	RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME	RELINQUISHED BY:		DATE	TIME		

*Air Bill # 4599405451*

## LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

HKR 001 0453

# Chain of Custody Record

Page \_\_\_\_\_ of \_\_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)		
SITE <i>Hooker / RUCC</i>				<div style="display: flex; justify-content: space-around; text-align: center;"> <div>8240, TIC</div> <div>8270, MOC</div> <div>8280</div> <div>metals</div> <div>CN</div> </div>													
COLLECTED BY (Signature) <i>W. J. S.</i>																	
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME															
5560 I1001 A3	water	1/17/90	9	x	x	x	x	x									
REMARKS													RELINQUISHED BY: <i>W. J. S.</i>		DATE 1/17	TIME 1530	
RECEIVED BY: <i>F. J. S.</i>	DATE 1/17	TIME 1530	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME

Air Bill # 4599 405462

**LAB USE ONLY**

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

HKR 001 0454





# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)	
SITE <i>Hooker / RUO</i>				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8240, TIC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8270, MOCV</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8080</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">MULS</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CN</div> </div>												
COLLECTED BY (Signature) <i>WFLS</i>																
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME														
<i>SSSSD2001A3</i>	<i>water</i>	<i>1/17/90</i>	<i>9</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>								
REMARKS													RELINQUISHED BY: <i>WFLS</i>		DATE <i>1/17</i>	TIME <i>1930</i>
RECEIVED BY: <i>Federal Express</i>	DATE <i>1/17</i>	TIME <i>1930</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME		

*Air Bill # 4599405440*

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

HKR 001 0456





# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker / Lucco</i>				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8240 TIS</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8270 MOC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8080</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">MALS</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CN</div> </div>											
COLLECTED BY (Signature) <i>W. Zuker</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
SS64FB001A3	water	1/18/90	9	x	x	x	x	x							
SS65TB001A3	water	1/18/90	1	x											
REMARKS												RELINQUISHED BY: <i>WTW</i>		DATE 1/18	TIME 1930
RECEIVED BY: <i>Fed EXAMS</i>	DATE 1/10	TIME 1930	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	

AIRBILL # 4599405020

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

HKR 001 0458

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker / Ruco</i>				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8240, TIC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8270, MOC4</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8080</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CN</div> </div>											
COLLECTED BY (Signature) <i>W-762</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
<i>SS63 F2001A3</i>	<i>water</i>	<i>1/18/80</i>	<i>9</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>							
REMARKS												RELINQUISHED BY: <i>W-762</i>		DATE <i>1/18</i>	TIME <i>1930</i>
RECEIVED BY: <i>Fed Ex</i>	DATE <i>1/18</i>	TIME <i>1720</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	

*AIRBILL # 4599405495*

RECEIVED FOR LABORATORY BY:		DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS										

*HKR 001 0459*

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker/Ruco</i>				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8240 T.C.</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8270 MOC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8080</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CN</div> </div>											
COLLECTED BY (Signature) <i>WTW</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
<i>5566 F1001A3</i>	<i>Water</i>	<i>1/18/90</i>	<i>9</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>							
REMARKS												RELINQUISHED BY: <i>W. F. W.</i>		DATE <i>1/18</i>	TIME <i>1530</i>
RECEIVED BY: <i>Federal Express</i>	DATE <i>1/18</i>	TIME <i>1430</i>	RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME	RELINQUISHED BY:		DATE	TIME	

*Air Bill # 959405016*

## LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

0960 100 HKR

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chem Corp.</i>			NO. OF CONTAINERS	ANALYSES								REMARKS	SAM ID NO. (for lab use only)	
SITE <i>Hooker / RUCCO</i>				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8240, TTC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8270, MOCA</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8000</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> </div>										
COLLECTED BY (Signature) <i>L. J. G. C.</i>														
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME												
<i>S570G2001A3</i>	<i>Water</i>	<i>1-22-90 1330</i>	<i>9</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>						
REMARKS											RELINQUISHED BY: <i>[Signature]</i>		DATE <i>1-22-90</i>	TIME <i>1930</i>
RECEIVED BY: <i>Fed Ex</i>	DATE <i>1-22-90</i>	TIME <i>1930</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME

*At B.1.1 #4599405123*

LAB USE ONLY

RECEIVED FOR LABORATORY BY	DATE	TIME	AIRBILL NO.	OPENED BY	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

HKR 001 0461

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chem Corp.</i>			NO. OF CONTAINERS <i>9</i>	ANALYSES <i>8240 TTS 8270 MOLA 8000 METALS CYANIDE</i>								REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker RUO</i>													
COLLECTED BY (Signature) <i>[Signature]</i>													
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME											
<i>5573N1001A3</i>	<i>Water</i>	<i>1-22-90</i>											
REMARKS										RELINQUISHED BY: <i>[Signature]</i>		DATE <i>1-22-90</i>	TIME <i>1430</i>
RECEIVED BY: <i>REC EX</i>	DATE <i>1-22-90</i>	TIME <i>1430</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME		

*Air Bill # 4597405134*

LAB USE ONLY

RECEIVED FOR LABORATORY BY	DATE	TIME	AIRBILL NO.	OPENED BY	DATE	TIME	TEMP °C	SEAL #	CONDITION

REMARKS

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chem Corp.</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker/RUCO</i>				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">0240TDC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">0270MOCX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">0090</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">METALS</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CYANIDE</div> </div>											
COLLECTED BY (Signature) <i>A. J. Lee</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
<i>55691-B001A3</i>	<i>water</i>	<i>1-22-90</i>	<i>9</i>												
<i>55681-B001A3</i>	<i>water</i>	<i>1-22-90</i>	<i>1</i>												
REMARKS													RELINQUISHED BY: <i>A. J. Lee</i>	DATE <i>1-22-90</i>	TIME <i>1930</i>
RECEIVED BY: <i>A. J. Lee</i>	DATE <i>1-22</i>	TIME <i>1930</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	

*A. J. Lee # 45-99405156*

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
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REMARKS
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HKR 001 0463

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Oxidant Chem Corp</i>			NO. OF CONTAINERS	ANALYSES								REMARKS	SAM ID NO. (for lab use only)		
SITE <i>Hooker/Rulo</i>				<div style="display: flex; justify-content: space-around; text-align: center;"> <div><i>8240 ILL</i></div> <div><i>8270 MOCA</i></div> <div><i>8080</i></div> <div><i>HEAVY</i></div> <div><i>CHROME</i></div> </div>											
COLLECTED BY (Signature) <i>(Signature)</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
<i>5572-M1001-A3</i>	<i>water</i>	<i>1-22-90</i>	<i>9</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>			
REMARKS												RELINQUISHED BY: <i>(Signature)</i>		DATE <i>1-22-90</i>	TIME <i>1930</i>
RECEIVED BY: <i>REC EX.</i>	DATE <i>1-22-90</i>	TIME <i>1930</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	

*Air Bill # 4599405195*

LAB USE ONLY									
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									



# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chem Corp.</i>			NO. OF CONTAINERS <i>9</i>	ANALYSES <i>8240.TIC 8270.400A 8280 METALS CYANIDE</i>								REMARKS	SAM ID NO. (for lab use only)	
SITE <i>Hooker/RUCO</i>														
COLLECTED BY (Signature) <i>[Signature]</i>														
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME												
<i>5571Q1001A3</i>	<i>water</i>	<i>1-22-90</i>	<i>9</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>		
REMARKS											RELINQUISHED BY: <i>[Signature]</i>		DATE <i>1-22-90</i>	TIME <i>1430</i>
RECEIVED BY: <i>RED EX</i>	DATE <i>1-22-90</i>	TIME <i>1930</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME			

*Air Bill # 4599405112*

RECEIVED FOR LABORATORY BY		DATE	TIME	AIRBILL NO.	OPENED BY	DATE	TIME	TEMP°C	SEAL #	CONDITION
REMARKS										

5945 100 HKR

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>accidental child</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker / Ruco</i>				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8240, TIC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8270, MOCA</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8080</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CN</div> </div>											
COLLECTED BY (Signature) <i>w 7/23</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
558001001A3	water	1/23/90	9	+	+	+	+	+							
REMARKS												RELINQUISHED BY: <i>w 7/23</i>		DATE 1/23	TIME 1930
RECEIVED BY: <i>Edna Lopez</i>	DATE 1/23	TIME 1930	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	

Airbill # 4599367371

## LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

HKR 001 0466

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)	
SITE <i>Hooker/Ruco</i>				<div style="display: flex; justify-content: space-around; text-align: center;"> <div><i>8240 TIC</i></div> <div><i>8270, moca</i></div> <div><i>8080</i></div> <div><i>metals</i></div> <div><i>CN</i></div> </div>												
COLLECTED BY (Signature) <i>w-7ms</i>																
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME														
5574 T B001A3	water	1/23/90	1	X												
5575 F B001A3	water	1/23/90	9	X	X	X	X	X								
REMARKS													RELINQUISHED BY: <i>w-7ms</i>		DATE 1/23	TIME 1930
RECEIVED BY: <i>F3020 Express</i>	DATE 1/23	TIME 1930	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME		

Air Bill # 6108769715

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

## Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

[illegible]

RECEIVED FOR LABORATORY BY				DATE	TIME	AIRBILL NO.	OPENED BY	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS												

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Accidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)	
SITE <i>Hooke / RUCD</i>				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8246, TIC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8270, MOCA</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8080</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CN</div> </div>												
COLLECTED BY (Signature) <i>WTHS</i>																
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME														
5577 H1001A2	water	1/23/90	9	X	X	X	X	X								
REMARKS													RELINQUISHED BY: <i>WTHS</i>		DATE 1/23	TIME 1530
RECEIVED BY: <i>Fed Express</i>	DATE 1/23	TIME 1930	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME		

Air Bill # 6108769730

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker Pico</i>				<div style="display: flex; justify-content: space-around; text-align: center;"> <div><i>8240 TIC</i></div> <div><i>8270 MCA</i></div> <div><i>8080</i></div> <div><i>metals</i></div> <div><i>CN</i></div> </div>											
COLLECTED BY (Signature) <i>WTV</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
<i>5578 H1001A4</i>	<i>water</i>	<i>1/23/90</i>	<i>9</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>							
REMARKS												RELINQUISHED BY: <i>WTV</i>		DATE <i>1/23</i>	TIME <i>1930</i>
RECEIVED BY: <i>Federal Express</i>	DATE <i>1/23</i>	TIME <i>1930</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	

Airbill # *6108769741*

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>occidental chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker/Roco</i>				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8240, TIC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8270, moca</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8080</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">m-16.5</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CN</div> </div>											
COLLECTED BY (Signature) <i>W7US</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
5579 J1001A3	w9h	1/23/90	9	+	+	+	+	+							
REMARKS												RELINQUISHED BY: <i>W7US</i>		DATE 1/23	TIME 1930
RECEIVED BY: <i>F320.2 Express</i>	DATE 1/23	TIME 1930	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	

Air Bill # 610876 9752

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

HKR 001 0471



# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker / Ruco</i>				<div style="display: flex; justify-content: space-around; font-size: small;"> <span>8240 TIC</span> <span>8240 MOA</span> <span>8080</span> <span>Metals</span> <span>CN</span> </div>											
COLLECTED BY (Signature) <i>W74</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
<i>558510593A3</i>	<i>water</i>	<i>1/24/90</i>	<i>9</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>							
REMARKS												RELINQUISHED BY: <i>W74</i>		DATE <i>1/24</i>	TIME <i>1530</i>
RECEIVED BY: <i>Feder Eyzas</i>	DATE <i>1/24</i>	TIME <i>1530</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	

*At 3:11 P.M. 6109769645*

RECEIVED FOR LABORATORY BY:		DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS										



# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)	
SITE <i>Hooker / Roco</i>				<div style="display: flex; justify-content: space-around; text-align: center;"> <div><i>8240, TIC</i></div> <div><i>8270, MOC</i></div> <div><i>8080</i></div> <div><i>metals</i></div> <div><i>CN</i></div> </div>												
COLLECTED BY (Signature) <i>[Signature]</i>																
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME														
<i>5581 TB001A3</i>	<i>Watz</i>	<i>1/24/90</i>	<i>1</i>	<i>X</i>												
<i>5582 FB001A3</i>	<i>Watz</i>	<i>1/24/90</i>	<i>9</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>								
REMARKS												RELINQUISHED BY: <i>[Signature]</i>		DATE <i>1/24</i>	TIME <i>1930</i>	
RECEIVED BY: <i>Federal Express</i>	DATE <i>1/24</i>	TIME <i>1930</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME		

*Air Bill # 6108769634*

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
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REMARKS

HKR 001 0473

## Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT Occidental Chemical			NO. OF CONTAINERS	ANALYSES								REMARKS	SAM ID NO. (for lab use only)	
SITE Hooker   RUO				8240 TIC	8270 macA	8080	metals	CN						
COLLECTED BY (Signature) W7W9														
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME												
SS8310812 A3	watz	1/24/90	9	X	X	X	X	X						
REMARKS												RELINQUISHED BY: W7W9	DATE 1/24	TIME 1930
RECEIVED BY: Federal Express	DATE 1/24	TIME 1930	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME			
LAB USE ONLY														
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:				DATE	TIME	TEMP °C	SEAL #	CONDITION		
REMARKS														
HKR 001 0474														



# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Accidental Chemical</i>				NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>North / River</i>					<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8070 T.C.</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8070 MISC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8080</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">M21415</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CN</div> </div>											
COLLECTED BY (Signature) <i>[Signature]</i>																
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME														
5582A10112	4012	1/25	9	+	+	+	+	+								
REMARKS													RELINQUISHED BY: <i>[Signature]</i>		DATE <i>1/25</i>	TIME <i>1930</i>
RECEIVED BY: <i>[Signature]</i>	DATE <i>1/25</i>	TIME <i>1930</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME		
LAB USE ONLY																
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION							
REMARKS																

HKR 001 0476

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES								REMARKS	SAM ID NO. (for lab use only)	
SITE <i>Hooker / Ruco</i>				Hardness	TSS and TDS	Oil and Grease	Alkalinity, pH, Chloride, Sulfate	TOC and COD	BOD					
COLLECTED BY (Signature) <i>W. J. [Signature]</i>														
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME												
5588 A10043	<i>water</i>	1/25/30	6	+	+	+	+	+	+					
REMARKS											RELINQUISHED BY: <i>W. J. [Signature]</i>		DATE 1/25	TIME 11:00
RECEIVED BY: <i>Ed. [Signature]</i>	DATE 1/25	TIME 11:00	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME			

*ALCOB 4597367302*

RECEIVED FOR LABORATORY BY:		DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS										

HKR 001 0477

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT OCEANIC Channel			NO. OF CONTAINERS	ANALYSES								REMARKS	SAM ID NO. (for lab use only)	
SITE Hawaii / Roca				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8240-DC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8240-MAC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8000</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">M-1213</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">M</div> </div>										
COLLECTED BY (Signature) W. J. S.														
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME												
5586T B001A3	WJ12	1/25	1	+										
5587 R1001A3	WJ12	1/25	9	+	+	+	+	+						
REMARKS												RELINQUISHED BY: W. J. S.	DATE 1/25	TIME 1730
RECEIVED BY: F. J. S.	DATE 1/25	TIME 1730	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME

NRB-11 # 6108769682

## LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
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REMARKS

HKR 001 0478

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Acid-1.2 ch-2</i>			NO. OF CONTAINERS	ANALYSES <i>8240 TIC</i> <i>8270 MGC</i> <i>8080</i> <i>metals</i> <i>CN</i>										REMARKS		SAM ID NO. (for lab use only)									
SITE <i>Hok / Roco</i>																									
COLLECTED BY (Signature) <i>W. J. J.</i>																									
FIELD SAMPLE I.D.																									
SAMPLE MATRIX			DATE/TIME																						
<i>5590 FB001.93</i>			<i>10/2</i>			<i>1/25/70</i>			<i>9</i>			<i>X</i>			<i>X</i>										
REMARKS										RELINQUISHED BY: <i>W. J. J.</i>					DATE <i>1/25</i>		TIME <i>1930</i>								
RECEIVED BY: <i>W. J. J.</i>		DATE <i>1/25</i>		TIME <i>1930</i>		RELINQUISHED BY:		DATE		TIME		RECEIVED BY:		DATE		TIME		RELINQUISHED BY:		DATE		TIME			
<i>9-10-11 # 4599307382</i> <b>LAB USE ONLY</b>																									
RECEIVED FOR LABORATORY BY:				DATE		TIME		AIRBILL NO.				OPENED BY:				DATE		TIME		TEMP °C		SEAL #		CONDITION	
REMARKS																									

HKR 001 0479

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chem</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)	
SITE <i>Hoot / RUCO</i>				<div style="display: flex; justify-content: space-around; text-align: center;"> <div>8240 T.S</div> <div>8270 MOC-A</div> <div>8080</div> <div>MOC-A 1/12/15</div> <div>CN</div> </div>												
COLLECTED BY (Signature) <i>W. J. [Signature]</i>																
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME														
5589 A200113	<i>unident</i>	1/25	9	X	X	X	X	X								
REMARKS													RELINQUISHED BY: <i>W. J. [Signature]</i>		DATE 1/25	TIME 1730
RECEIVED BY: <i>F20 [Signature]</i>	DATE 1/25	TIME 1730	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME		

*ALC 1 # 6108769600*

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
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REMARKS
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HKR 001 0480



# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Acidified channel</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)							
SITE <i>Hook &amp; Roco</i>				<i>HARDNESS</i>	<i>TSS and TDS</i>	<i>Oil</i>	<i>Gravel</i>	<i>Microbial</i>	<i>DOC and COD</i>	<i>BOD</i>												
COLLECTED BY (Signature) <i>W. F. J. S.</i>																						
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME																				
<i>5589 A2001A8</i>	<i>water</i>	<i>1/25/10</i>	<i>6</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>												
REMARKS												RELINQUISHED BY: <i>W. F. J. S.</i>		DATE <i>1/25</i>	TIME <i>11:30</i>							
RECEIVED BY: <i>F. J. S.</i>	DATE <i>1/25</i>	TIME <i>1930</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME								

*Airbill # 61 08769656*

LAB USE ONLY			
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.
OPENED BY:	DATE	TIME	TEMP °C
SEAL #	CONDITION		
REMARKS			

HKR 001 0481

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical Corp</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)	
SITE <i>Hooker / Roco</i>				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8240, TIC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8270, MOCA</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8080</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CN</div> </div>												
COLLECTED BY (Signature) <i>WJMS</i>																
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME														
<i>5591 TBC01A3</i>	<i>water</i>	<i>1/29/90</i>	<i>1</i>	<i>X</i>												
<i>5592 SW 001A3</i>	<i>water</i>	<i>1/29/90</i>	<i>9</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>								
REMARKS													RELINQUISHED BY: <i>WJMS</i>		DATE <i>1/29</i>	TIME <i>1530</i>
RECEIVED BY: <i>Federal Express</i>	DATE <i>1/29</i>	TIME <i>1530</i>	RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME	RELINQUISHED BY:		DATE	TIME		

LAB USE ONLY									
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									
<div style="border: 1px solid black; padding: 5px; width: fit-content;">           HKR 001 0482         </div>									

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES								REMARKS	SAM ID NO. (for lab use only)	
SITE <i>Hooker / RUCO</i>				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8240, TIC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8270, MCA</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8080</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CN</div> </div>										
COLLECTED BY (Signature) <i>W. J. D.</i>														
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME												
<i>5593 SW002 A3</i>	<i>Water</i>	<i>1/29</i>	<i>9</i>											
REMARKS											RELINQUISHED BY: <i>W. J. D.</i>		DATE <i>1/29</i>	TIME <i>1530</i>
RECEIVED BY: <i>Fedex Express</i>	DATE <i>1/21</i>	TIME <i>1130</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME

LAB USE ONLY

RECEIVED FOR LABORATORY BY	DATE	TIME	AIRBILL NO.	OPENED BY	DATE	TIME	TEMP °C	SEAL #	CONDITION
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REMARKS
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HKR 001 0483



# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hokke/Ruco</i>				<div style="display: flex; justify-content: space-around; text-align: center;"> <div><i>8240, T.I.C</i></div> <div><i>8270, MGC</i></div> <div><i>8080</i></div> <div><i>metals</i></div> <div><i>CN</i></div> </div>											
COLLECTED BY (Signature) <i>[Signature]</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
<i>5595 T001 A3</i>	<i>water</i>	<i>1/30</i>	<i>1</i>	<i>+</i>											
<i>5597 P1001 A3</i>	<i>water</i>	<i>1/30</i>	<i>9</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>							
REMARKS												RELINQUISHED BY: <i>[Signature]</i>		DATE <i>1/30</i>	TIME <i>1530</i>
RECEIVED BY: <i>FedEx</i>	DATE <i>1/30</i>	TIME <i>1930</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	
<i>Air Bill # 4599367441</i>															
LAB USE ONLY															
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:			DATE	TIME	TEMP °C	SEAL #	CONDITION				
REMARKS															

HKR 001 0485

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker / Ruco</i>				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8240-TIC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8270-MAX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8080</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">METALS</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CN</div> </div>											
COLLECTED BY (Signature) <i>W. J. [Signature]</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
5596 FB001 A3	water	1/30	9	+	+	+	+	+							
REMARKS												RELINQUISHED BY: <i>W. J. [Signature]</i>		DATE 1/30	TIME 1930
RECEIVED BY: <i>Federal Express</i>	DATE 1/30	TIME 1930	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	

*Air Bill # 4599367452*

RECEIVED FOR LABORATORY BY:		DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS										

HKR 001 0486

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Oxidant Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker/duco</i>				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8240, TIC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8240, MOC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8080</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CN</div> </div>											
COLLECTED BY (Signature) <i>W-JWS</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
5598T2001A3	water	1/30 1243	9	X	X	X	X	X							
REMARKS												RELINQUISHED BY: <i>W-JWS</i>		DATE 1/30	TIME 1930
RECEIVED BY: <i>F. Jones</i>	DATE 1/30	TIME 1930	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	
Air Bill # 4599 367474															
LAB USE ONLY															
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION						
REMARKS															
HKR 001 0487															

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)	
SITE <i>Hoo Kue / Ruco</i>				<div style="display: flex; justify-content: space-around; text-align: center;"> <div><i>8240, TIC</i></div> <div><i>8270, MOC4</i></div> <div><i>8080</i></div> <div><i>Metals</i></div> <div><i>CAV</i></div> </div>												
COLLECTED BY (Signature) <i>W-715</i>																
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME														
<i>5599T2001A4</i>	<i>water</i>	<i>1/30/90 1213</i>	<i>9</i>	<i>X</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>							
REMARKS													RELINQUISHED BY: <i>W-715</i>		DATE <i>1/30</i>	TIME <i>1930</i>
RECEIVED BY: <i>A12811 W</i>	DATE <i>1/30</i>	TIME <i>1930</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME		

*Federal Express 4599367463*
**LAB USE ONLY**

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

HKR 001 0488



[illegible]

Air Bill # 4599367430

**LAB USE ONLY**

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
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REMARKS
<div style="border: 1px solid black; padding: 5px; display: inline-block;">           HKR 001 0489         </div>

HKR 001 0489

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker/Rxo</i>				<div style="display: flex; justify-content: space-around; text-align: center;"> <div><i>0240 TIC</i></div> <div><i>0270 MAC</i></div> <div><i>0000</i></div> <div><i>metals</i></div> <div><i>CN</i></div> </div>											
COLLECTED BY (Signature) <i>W. Juss</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
<i>SL01TB001 A3</i>	<i>water</i>	<i>2/1/90</i>	<i>1</i>	<i>+</i>											
<i>SL02FB001 A3</i>	<i>water</i>		<i>9</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>							
REMARKS												RELINQUISHED BY <i>W. Juss</i>		DATE <i>2/1</i>	TIME <i>1930</i>
RECEIVED BY: <i>Fedex Express</i>	DATE <i>2/1</i>	TIME <i>1930</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	

*Airbill # 0108780180*
**LAB USE ONLY**

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									
<div style="border: 1px solid black; padding: 5px; margin-top: 10px;">         HKR 001 0490       </div>									





# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Accidental Chemical</i>			NO. OF CONTAINERS	ANALYSES								REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker / Ruco</i>				8240, TIC	8270, MOC	8080	Metals	CN					
COLLECTED BY (Signature) <i>W. F. [Signature]</i>													
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME											
5605L1001A3	water	2/1/90	1	+	+	+	+	+					
REMARKS											RELINQUISHED BY: <i>W. F. [Signature]</i>	DATE 2/1	TIME 1930
RECEIVED BY: <i>[Signature]</i>	DATE 2/1	TIME 1930	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME		

4:28:11 # 610876963

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

HKR 001 0493



# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)	
SITE <i>Hooker/Rusco</i>				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8240, TIC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8270, moca</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8080</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CN</div> </div>												
COLLECTED BY (Signature) <i>[Signature]</i>																
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME														
<i>S607TB001A3</i>	<i>water</i>	<i>2/2</i>	<i>1</i>	<i>+</i>												
<i>S608FB001A3</i>	<i>water</i>	<i>2/2</i>	<i>9</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>								
REMARKS													RELINQUISHED BY: <i>[Signature]</i>		DATE <i>2/2</i>	TIME <i>1930</i>
RECEIVED BY: <i>Federal Express</i>	DATE <i>2/2</i>	TIME <i>1930</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME		

*Airail B 6108780215*

RECEIVED FOR LABORATORY BY:		DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS										

6609 1001 HKR 0495





# Chain of Custody Record

Sulfate

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)																																																																																																																																																																																																											
SITE <i>Hooker / RUCO</i>				<i>Hardness</i> <i>TSS and TDS</i> <i>Oil and Grease</i> <i>Alkalinity (Calcium)</i> <i>TOC and COD</i> <i>BOD</i>																																																																																																																																																																																																																						
COLLECTED BY (Signature) <i>W. J. W.</i>																																																																																																																																																																																																																										
FIELD SAMPLE I.D.				SAMPLE MATRIX			DATE/TIME																																																																																																																																																																																																																			
<i>SL009K1001A3</i>			<i>water</i>			<i>2/2/90</i>			<i>6</i>			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td><i>X</i></td><td><i>X</i></td><td><i>X</i></td><td><i>X</i></td><td><i>X</i></td><td><i>X</i></td><td><i>X</i></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>							<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>																																																																																																																																																																																																	
<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>																																																																																																																																																																																																																				
REMARKS												RELINQUISHED BY: <i>W. J. W.</i>				DATE <i>2/2</i>	TIME <i>1930</i>																																																																																																																																																																																																									
RECEIVED BY: <i>F. J. W.</i>	DATE <i>2/2</i>	TIME <i>1930</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME																																																																																																																																																																																																												

*AIRBILL # 6108780220*

RECEIVED FOR LABORATORY BY:		DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS										

660 100 0497 HKR



# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)	
SITE <i>Hooker/RUCO</i>				<i>Mercury</i> <i>TSS and TDS</i> <i>Oil and Grease</i> <i>Alkalinity, Chloride</i> <i>TOC and COD</i> <i>Sulfate</i>												
COLLECTED BY (Signature) <i>W. Zuehl</i>																
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME														
<i>SL10K2001A3</i>	<i>water</i>	<i>2/2</i>	<i>6</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>						
REMARKS													RELINQUISHED BY: <i>W. Zuehl</i>		DATE <i>2/2</i>	TIME <i>1130</i>
RECEIVED BY: <i>Federal Express</i>	DATE <i>2/2</i>	TIME <i>1130</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME		

*Airbill # 61087 80030*

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

HKR 001 0499





# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES								REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker / RUCC</i>				<i>8340, TIC</i> <i>8370, MOC</i> <i>8080</i> <i>metals</i> <i>CN</i>									
COLLECTED BY (Signature) <i>W.F. Wells</i>													
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME											
<i>SG13 S1001A3</i>	<i>water</i>	<i>2/13</i>	<i>9</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>					
REMARKS											RELINQUISHED BY: <i>W.F. Wells</i>	DATE <i>2/13</i>	TIME <i>430</i>
RECEIVED BY: <i>Federal Express</i>	DATE <i>2/13</i>	TIME <i>1930</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME		

LAB USE ONLY									
RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

10501 001 HKR

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Accidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker / Ruco</i>				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8240, TIC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8270, MACA</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8080</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CA</div> </div>											
COLLECTED BY (Signature) <i>W. J. [Signature]</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
SL14 S1001A4	water	2/13	7	X	X	X	X	X							
REMARKS												RELINQUISHED BY: <i>W. J. [Signature]</i>		DATE 2/13	TIME 1930
RECEIVED BY: <i>Fidwell Express</i>	DATE 2/13	TIME 1920	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	

4120:11 # 6108774921

**LAB USE ONLY**

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION

HKR 001 0502

# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES								REMARKS	SAM ID NO. (for lab use only)		
SITE <i>Hooker/Ruco</i>				<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BOD</div> <div style="flex-grow: 1; border: 1px solid black; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></div> </div>											
COLLECTED BY (Signature) <i>W. F. J. S.</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
<i>5615 K1001A3</i>	<i>water</i>	<i>2/13</i>	<i>1</i>	<i>X</i>											
<i>5616 K2001A3</i>	<i>water</i>	<i>2/13</i>	<i>1</i>	<i>X</i>											
REMARKS												RELINQUISHED BY: <i>W. F. J. S.</i>		DATE <i>2/13</i>	TIME <i>1930</i>
RECEIVED BY: <i>F. J. S. P. A. S. S.</i>	DATE <i>2/13</i>	TIME <i>1930</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	

*AirBill # 6108774932*
**LAB USE ONLY**

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS									

0503 001 HKR



# Chain of Custody Record

Page \_\_\_\_ of \_\_\_\_

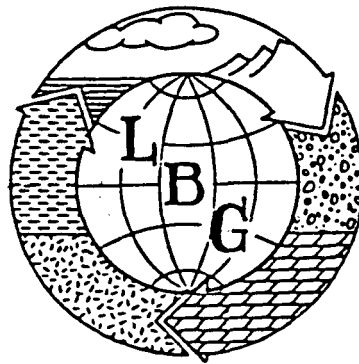
PROJECT <i>Occidental Chemical</i>			NO. OF CONTAINERS	ANALYSES										REMARKS	SAM ID NO. (for lab use only)
SITE <i>Hooker / RUCC</i>				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8940, TIC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8970, MOA</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8980</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CN</div> </div>											
COLLECTED BY (Signature) <i>W. F. J.</i>															
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME													
<i>5617 OF 00143</i>	<i>water</i>	<i>2/13</i>	<i>9</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>							
REMARKS												RELINQUISHED BY <i>W. F. J.</i>		DATE <i>2/13</i>	TIME <i>1930</i>
RECEIVED BY: <i>Federal Express</i>	DATE <i>2/13</i>	TIME <i>1930</i>	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	

*Air Bill # 6108724943*

RECEIVED FOR LABORATORY BY:		DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
REMARKS										

HKR 001 0504





**LEGGETTE, BRASHEARS & GRAHAM, INC.**

72 Danbury Road  
Wilton, CT 06897  
(203) 762-1207  
FAX (203) 762-8062

HKR 001 0505